

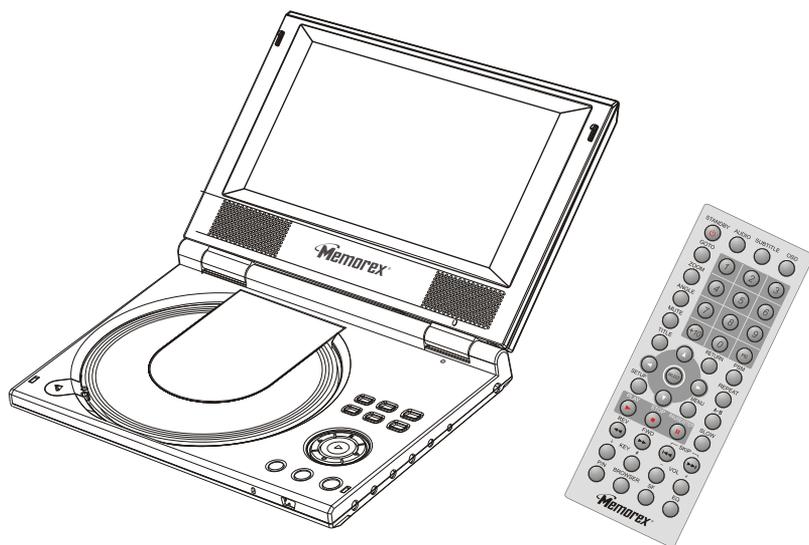
# Memorex®

Is it live or is it Memorex?™

## MVDP1072

# User's Guide

PORTABLE DVD/VCD/MP3/PHOTO CD Player



**Before operating this product,  
please read these instructions completely.**

# WARNING

- TO PREVENT FIRE OR SHOCK HAZARD. DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol. Within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

## CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

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



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) The AC plug supplied with the unit is polarized to help minimize the possibility of electric shock. If the AC plug does not fit into a nonpolarized AC outlet, do not file or cut the wide blade. It is user's responsibility to have an electrician replace the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) 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.

This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.

# Safety Instructions

---



## **Danger Symbol**

Reminding the user of the dangerous voltage!



## **Warning Symbol**

Reminding the user of the important instructions for operation and maintenance.

Danger of explosion if battery is incorrectly replaced. Do not replace the battery.

## **CAUTION:**

- This DVD player contains laser system.
- Read this manual carefully and get familiar with the instructions before operating.
- Please retain this manual in a safe place for future reference. Please contact your local dealer or our technical service center for maintenance.
- To prevent direct laser radiation, do not attempt to open the enclosure. Visible laser beam will radiate when the enclosure is opened or when the interlock device is released. Do not stare at the laser-beam.
- The DVD pick-up is a precision component, so do not open the disc tray door for an extended period of time in order to prevent dust.
- The TFT display is a delicate device, so do not press it to avoid damaging to the display.
- Never place other things or articles upon the player, otherwise it may cause improper playback.



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**This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.**

**All images in this manual are sketch illustrations for reference only. The actual displays are contingent upon discs.**

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## Brief Introduction to DVD

DVD is well known for its extraordinarily large capacity and outstanding audio-video quality. Its capacity is as high as 4.7-17 GB (approximately 7-26 times the CD capacity). With 500-line horizontal resolution for pictures and Dolby Digital 5.1 Channel surround sound, it brings a new era to the household AV products.

### Comparison Between DVD and Other Discs

	DVD				LD	SVCD	VCD	CD
Recording Method	Digital/MPEG2				Analog	Digital/MPEG2	Digital/MPEG1	Digital
Capacity	Single-sided 1 layer 4.7G	Single-sided 2 layers 8.5G	Double-sided 1 layer 9.4G	Double-sided 2 layers 17G		650MB	650MB	650MB
Playback time	133min.	242min.	266min.	484min.	1 side 60min. 2 sides 120min.	45min.	74min.	74min.
Disc Diameter	12CM/8CM				30CM/20CM	12CM/8CM	12CM/8CM	12CM/8CM
Horizontal Resolution	500 lines or more				430 lines or more	350 lines or more	250 lines or more	
Aspect Ratio	Multiple				One			
Subtitle	32 types				Max. 16 types			
Audio	Dolby Digital/Linear PCM				Linear PCM FM modulation			Linear PCM
Sound Quality	48KHz,96KHz/16,20,24bit				44.1KHz/16bit		44.1KHz	44.1KHz/16bit

### Function Introduction

- Multiple languages and subtitles  
DVD discs can support as many as 8 dubbing languages and 32 subtitle languages.
- Multiple angles  
DVD discs may support as many as 9 camera angles.
- Multiple story plots

Some discs support user selection of various plot choices that effect the beginning, development or end of the story all on the same disc.

- Multiple aspect ratios  
Multiple aspect ratios support various TV screens.

Disc Pictures	TV Screen		
	4:3		16:9
	Pan-Scan	Letterbox	
4:3 			
16:9 			

# PREFACE

## Cautions

### ON THIS UNIT

- Please remove the power plug from the wall outlet if you do not intend to use this player for an extended period of time.
- Ensure that all connection wires and power supply cords are properly connected before turning on power.
- This player utilizes a switching power supply. Power supply: AC 120V, 60Hz.
- Please adjust the volume to minimum. Adjust the volume control to a comfortable level after playback begins to avoid damaging your speakers, amplifier or your hearing.
- Do not put this player near any high power speaker or any other source of vibration. Accessive vibration will cause problems with normal operation and playback.
- Please put this player in a dry and ventilated area. Do not put it near a heat source, or expose it to direct sunlight, mechanical vibration, humidity or dust-rich environment.
- Condensation may form on the laser head if it is moved from one temperature extreme to another. Turn the player on and do not load a disc for 1-2 hours. This will evaporate the condensation and keep your new player functioning correctly.
- If you need to clean the player, you may use a small amount of neutral detergent. Never use sandpaper or organic solvent such as alcohol or gasoline for cleaning.
- Do not place objects full of liquid such as vase on the player.

### ON THE TFT DISPLAY

- Please do not expose the display to heat or scratch the screen with pointed objects.
- A few bright or dark spots may appear on the display and is normal. This does not indicate a problem or defect.  
0.01% of the pixels may not illuminate normally.
- Setting the display to maximum brightness for an extended period will damage the display.

### ON BATTERY PACK

- This player's battery pack is rechargeable and should be fully charged before use.
- Please remove the battery pack if you do not intend to use this player for an extended period of time. (Power is still consumed although this player is turned off. Therefore, the battery pack may be damaged due to excessive discharging.)
- The battery pack can be recharged only when this player is turned off.
- Do not dispose of in fire or water. Do not heat the battery pack.
- Do not use it in high temperature or near a heat source.
- Do not connect the positive and negative polarities with a metal object.
- The operating temperature of the battery pack is 32~95°F

## Features

This player utilizes color TFT LCD and a new generation DVD decoding chip with built-in Dolby Digital decoders to bring you the best sight and sound from your DVD. The 2-laser super error correction mechanism supports CD-R.

### Audio/Video Features

- 1 7" color TFT LCD.
- 2 Composite video and S-Video connections.
- 3 Built-in Dolby Digital decoder.
- 4 Audio output.
- 5 Built-in stereo speakers.
- 6 Hi-Fi stereo headphone jack.

### High Quality Digital Audio

- 1 Digital audio optical output capable of connecting to a power amplifier with the Dolby Digital or DTS decoder.
- 2 Dolby Digital and PCM digital audio outputs can definitely satisfy audiophiles' high listening requirements.

### Additional Convenient Functions

- 1 Screen saver function protects your LCD and TV displays.
- 2 Electronic anti-shock circuits and large capacity solid Li-Ion battery make your new DVD player truly portable.
- 3 Easy-to-use Graphical User Interface (GUI) and virtual keyboard.
- 4 Multi-angle playback function makes it possible for you to view a scene from different camera angles (when supported by your DVD).
- 5 Direct entry to desired scenes (title/chapter/time/track search).
- 6 Zooming function to zoom in on any playing frame.
- 7 Supports PAL/NTSC systems, no compression to pictures.
- 8 Multiple aspect ratios to fit various TV sets.
- 9 Parental control function to protect children from watching inappropriate discs.
- 10 Multiple dubbing languages and subtitle languages keep you in the best entertaining status anytime.

**Supports SVCD, VCD, CD, MP3, HDCD, KODAK PICTURE CD, DVD-R/RW.**

# PREFACE

## Compatible Disc Types

Types	Sizes	Recorded Contents
	12cm or 8cm	DVD: Compressed digital audio+compressed digital video (dynamic picture)
<b>SVCD</b>	12cm or 8cm	SVCD: Compressed digital audio+compressed digital video(dynamic picture)
	12cm or 8cm	VIDEO CD: Compressed digital audio+compressed digital video(dynamic picture)
	12cm or 8cm	CD-DA: Digital audio
<b>MP3</b>	12cm or 8cm	MP3: Compressed digital audio

### NOTES

- Issues related to     

These icons on the top banner indicate the disc types that the function described in this section applies to.



Applies to DVD disc



Applies to CD disc



Applies to SVCD disc

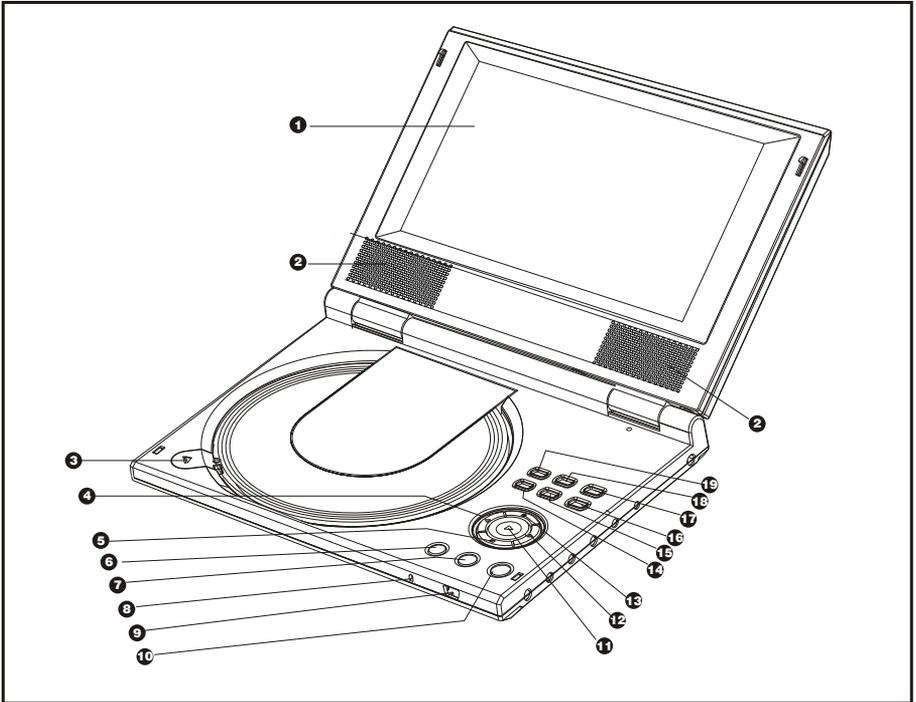


Applies to MP3 disc



Applies to VCD disc

## Control Button Locations and Explanations

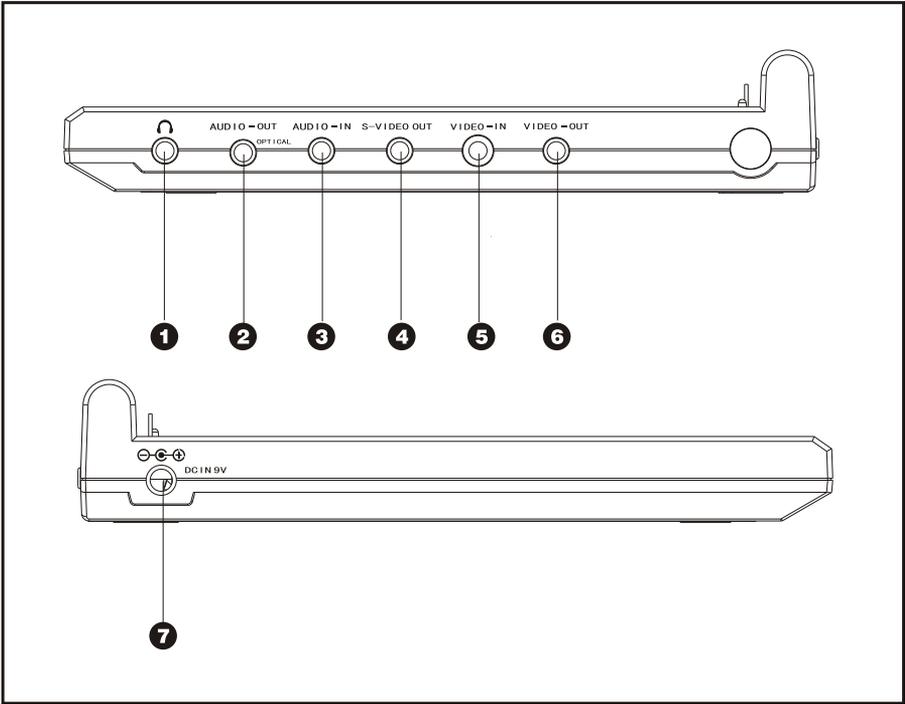


- ❶ Color TFT LCD
- ❷ Speakers
- ❸ OPEN/CLOSE button
- ❹ PREV button / LEFT direction arrow
- ❺ PAUSE button / DOWN direction arrow
- ❻ Vol-  
Adjust the volume of headphone and speaker.
- ❼ Vol+  
Adjust the volume of headphone and speaker.
- ❽ Power indicator
- ❾ IR (Remote Control)sensor
- ❿ Function Select

- Press once to switch to Direction Buttons function
- Press twice to switch to Virtual Keyboard function
- ⓫ PLAY button / SELECT button
- ⓬ NEXT button / RIGHT direction arrow
- ⓭ STOP button / UP direction arrow
- ⓮ SET button
- ⓯ PICTURE button
- ⓰ DVD/AUXIN button
- ⓱ POWER button
- ⓲ MENU button
- ⓳ Browser Button

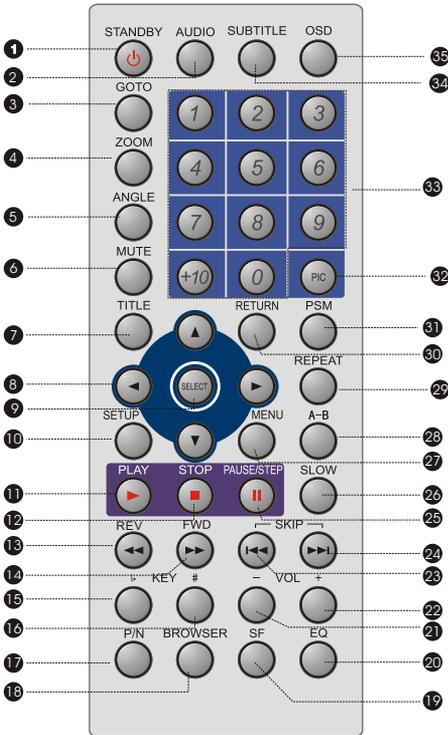
# PREFACE

## Control Button Locations and Explanations



- 1 Headphones jack
- 2 Audio/Optical Out jack
- 3 Audio in jack
- 4 S-Video Out jack
- 5 Video In jack
- 6 Video Out jack
- 7 Power supply socket

## Remote Control Illustration



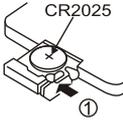
- 27** **MENU/PBC** Button  
Display DVD menu or open/close PBC.
- 28** **A-B** Button  
Repeat the select.
- 29** **REPEAT** Button  
Repeat play.
- 30** **RETURN** Button  
Back to the previous menu/  
Clearing input numbers.
- 31** **PSM** Button  
Power Spectrum Meter on/off.
- 32** **PIC** Button  
Set video.
- 33** **NUMBER** Buttons
- 34** **SUBTITLE** Button  
Change subtitle languages/  
Switch JPEG display modes.
- 35** **OSD** Button  
Display or hide disc information.

- 1** **STANDBY** Button  
Press to turn On/Off the unit.
- 2** **AUDIO** Button  
Change the audio language or audio channel.
- 3** **GOTO** button  
Play from the desired location.
- 4** **ZOOM** Button  
Zoom In/Out the display frame.
- 5** **ANGLE** Button  
Change camera angles, MP3/JPEG playback modes switch.
- 6** **MUTE** button  
Press once to mute, twice to unmute.
- 7** **TITLE** button  
DVD titles.
- 8** **CURSOR** Buttons
- 9** **SELECT** Button
- 10** **SETUP** Button  
Function setup.
- 11** **PLAY** Button  
Normal playback.
- 12** **STOP** Button  
Stop playback.
- 13** **REV** Button  
Fast backward play.
- 14** **FWD** Button  
Fast forward play.
- 15** **KEY** Button  
Fall tone.
- 16** **KEY** Button  
Rise tone.
- 17** **P/N** Button  
Switch the TV system between PAL, NTSC and AUTO.
- 18** **BROWSER**  
Switch new user interface.
- 19** **SF** Button  
Adjusting sound field effects.
- 20** **EQ** Button  
Adjusting equalization effects.
- 21** **VOLUME-**  
Decrease volume.
- 22** **VOLUME+**  
Increase volume.
- 23** **PREV** Button  
Skip backward.
- 24** **NEXT** Button  
Skip forward.
- 25** **PAUSE/STEP** Button  
Pause or play frame by frame.
- 26** **SLOW** Button  
Slow motion Forward/Reverse playback.

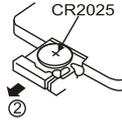
# PREFACE

## How to use the Remote Control

### Battery Installation



Step 1: Push the button toward left.

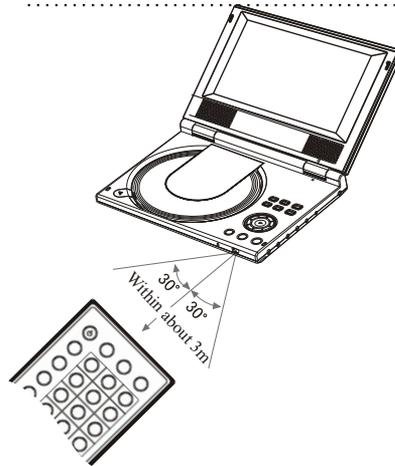


Step 2: Pull the battery holder out.

Step 3: Insert a Standard CR2025 battery according to the polarity on the battery holder and replace the battery holder to the remote.

### Using the Remote control

When using the remote control, the transmitter of the remote control should be pointed to the IR sensor on the front panel within an angle of  $30^\circ$  from the center and a distance of 3 meters from the sensor.



### Cautions

- Never drop the remote control or expose it to moisture.
- Never expose the infrared remote sensor on the front panel to direct sunlight or strong beams.
- When the batteries become low, replace it in time.

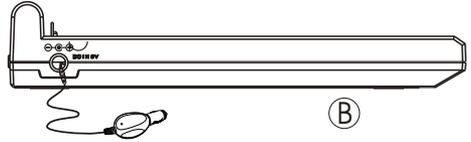
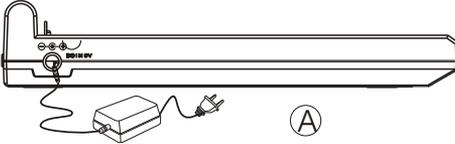
### Accessories

Audio cord ..... 1pcs  
Video cord ..... 1pcs  
Remote Control ..... 1pcs  
3V (CR2025)Button Battery ..... 1pcs  
Instruction Manual ..... 1pcs

S-Video cord ..... 1pcs  
Battery Pack ..... 1pcs  
Power Adapter ..... 1pcs  
AC Cord ..... 1pcs  
Car Adapter ..... 1pcs

## Connecting to Power Supply

- 1 Connect the AC cord with the power adapter. (See picture (A))
- 2 Connect the output plug of to this player's power adapter.
- 3 Connect the power adapter to an AC power source.

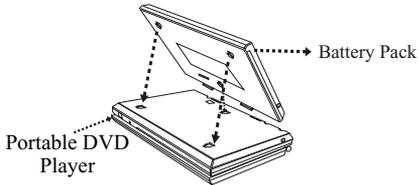


- 1 Connect the car adapter to an DC power source in the car. (See picture (B))

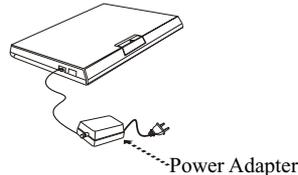
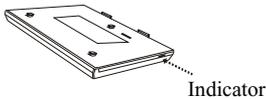
## Installing Battery Pack

### 1 Installing Battery Pack

- Insert the clasps of the battery pack into the holes in the bottom of this player as shown in the figure.
- Slide the battery pack to secure it.



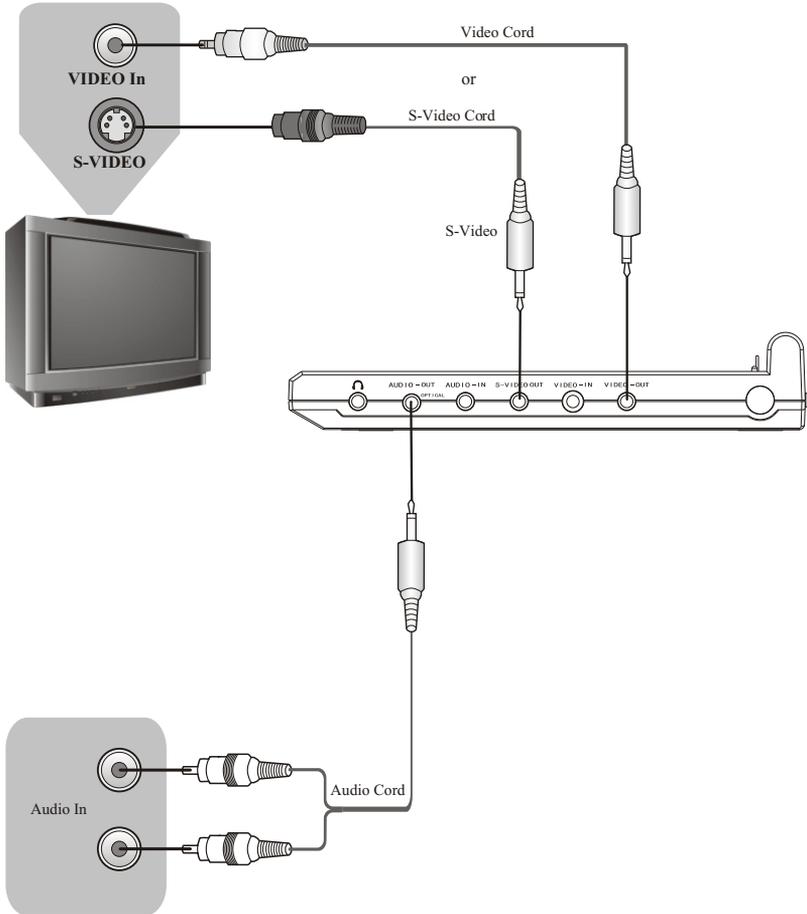
### 2 Recharging Battery Pack



- Insert the output plug of the power adapter into the battery pack's power socket. The battery pack indicator will be orange for 0.5 seconds, then the indicator will flash green, which shows the battery pack is being recharged.
- When the battery pack is going to be fully recharged, the indicator will flash orange.
- The indicator will be green when the battery is fully recharged.
- If the indicator lights up in red, the battery pack has problems and needs repair.
- You can charge the battery while using the DVD player. You must have the power connected to the battery pack and not to the main unit.
- The usage of car adapter is the same as using the standard home power adapter.

# SYSTEM CONNECTIONS

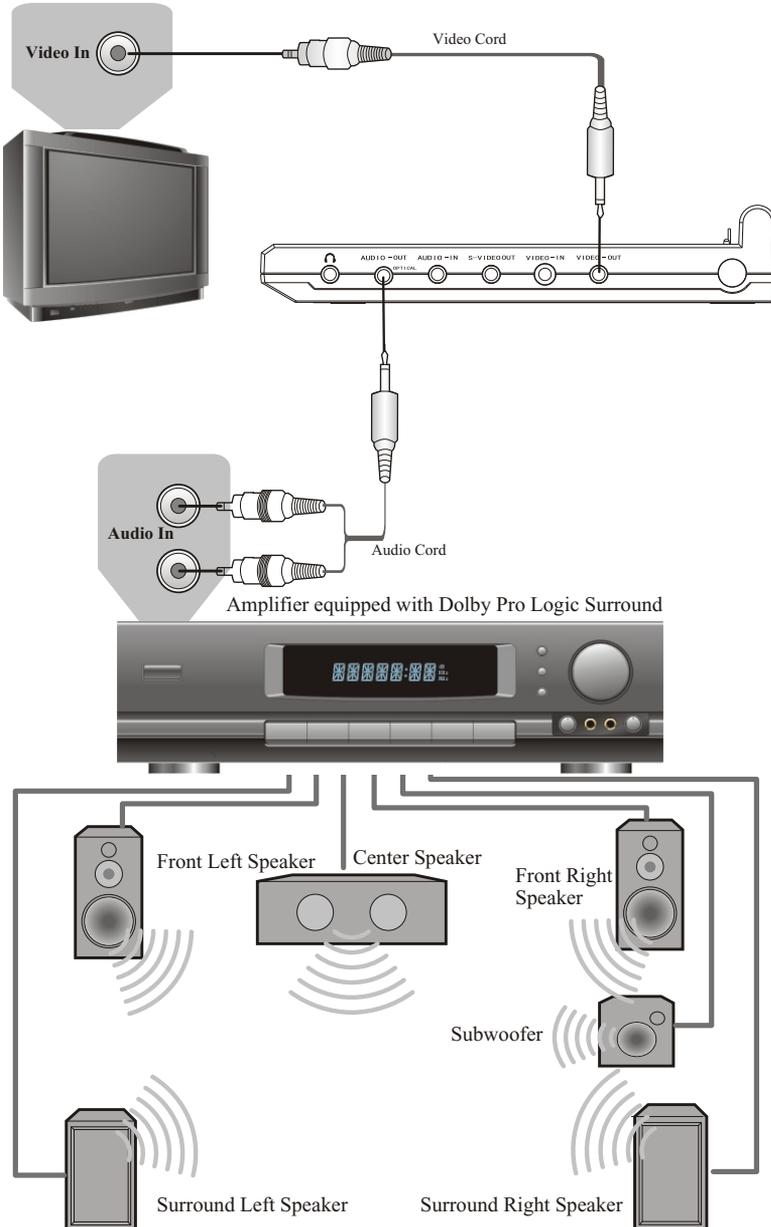
## Connecting to a TV set



- Connect this player to the TV set with the video cord.
- If your TV set has a S-VIDEO IN connector, use S-VIDEO CORD to connect the DVD player and TV set **in order to get the best picture possible.**
- **Make sure to connect your AUDIO Out to the same input group on your TV.**  
**Example: AUX1, VIDEO1**

# SYSTEM CONNECTIONS

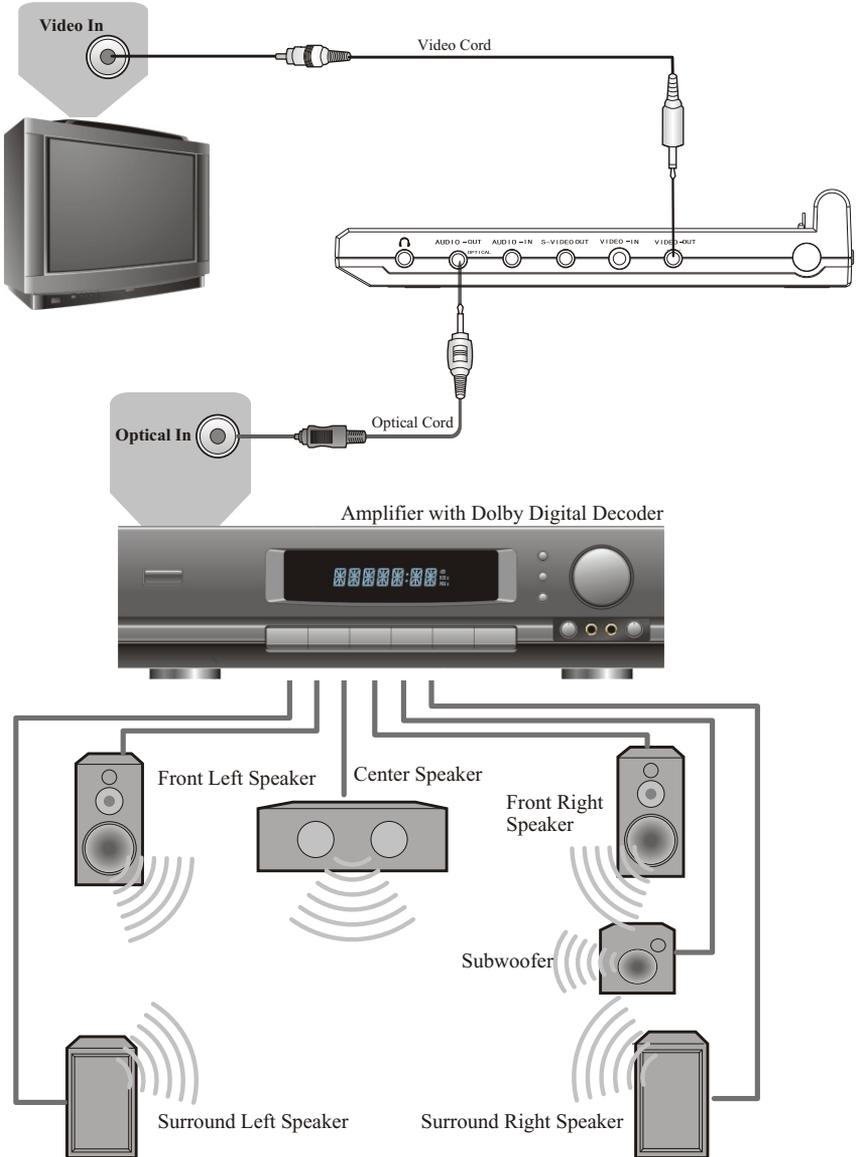
## Connecting to an Ordinary Audio System



- When setting up the speakers please set the Audio mode to "LT/RT"(Please refer to page 36 for details).

# SYSTEM CONNECTIONS

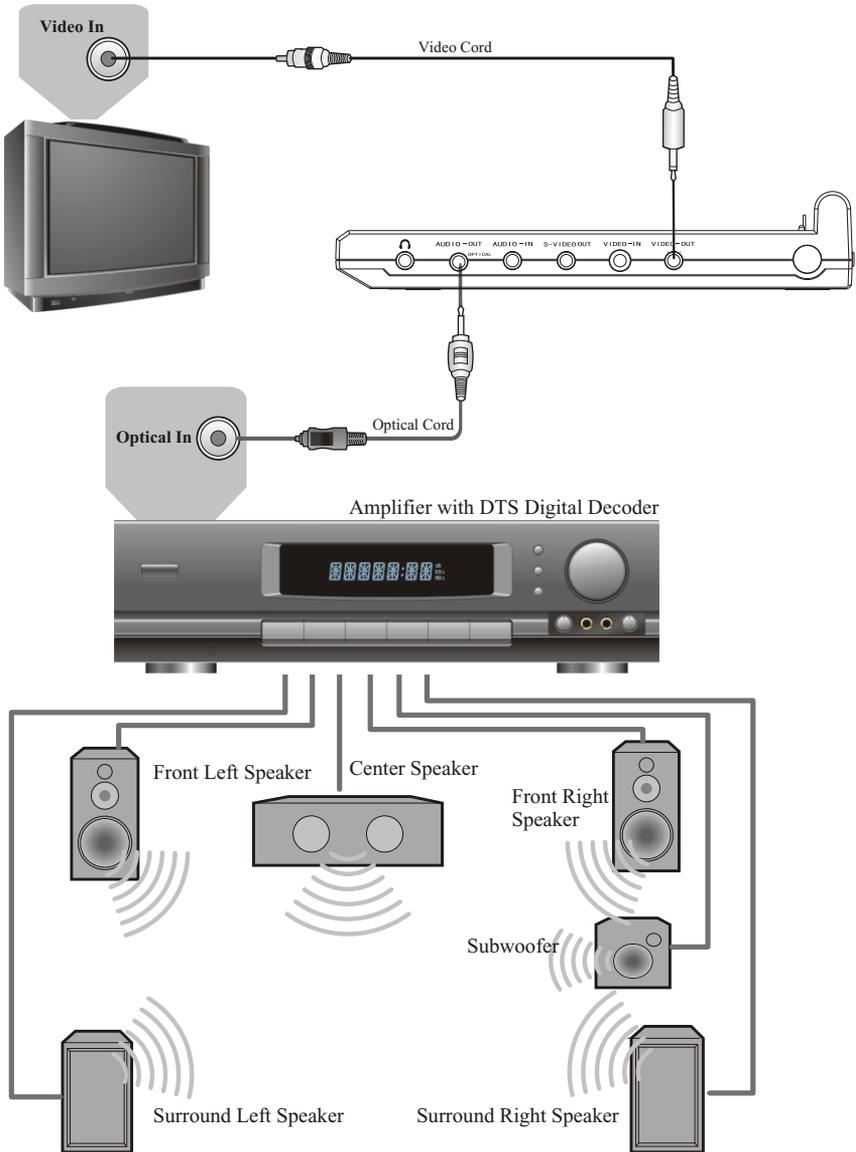
## Connecting to an Amplifier with Dolby Digital Decoder



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.

# SYSTEM CONNECTIONS

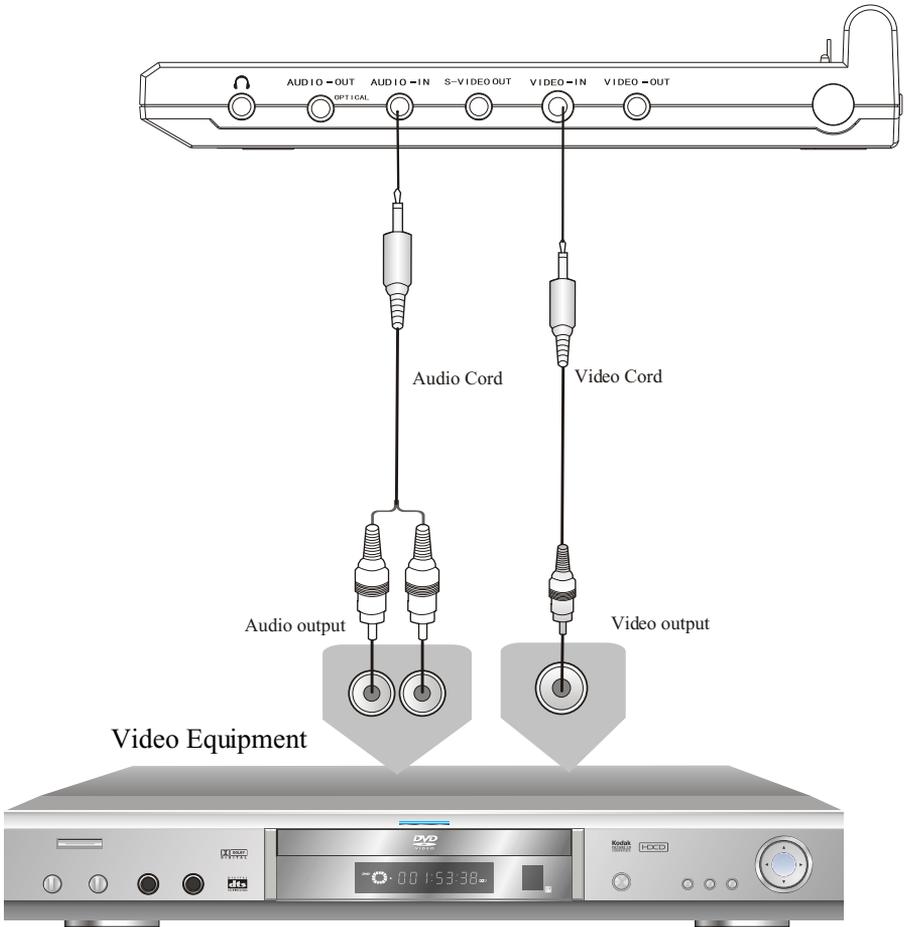
## Connecting to an Amplifier with DTS Digital Decoder



"DTS" and "DTS Digital Out" are the trademarks of Digital Theater Systems, Inc.

# SYSTEM CONNECTIONS

## Audio/Video In (AUX IN)



- Connect the video cords from the Video Out on the source to Video In on your DVD.
- Connect the audio cords from the Audio Out on the source to Audio In on your DVD.

# BASIC OPERATION

## Playback



1. **Connect the player to the power supply** (Please refer to page 9).
2. **Press the power button (on main unit) or the Standby button (on the remote) to turn the unit on.**

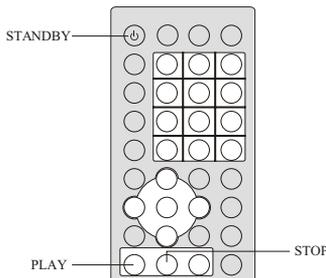
Open Disc Lid



Close Disc Lid



- **Lift the top gently to open the DVD player and adjust the TFT LCD angle.**
3. **Press OPEN/CLOSE to open the disc lid.**
- Place a disc with label side facing up.
4. **Close the disc lid.**
- The player will start reading the disc.



5. **Press PLAY to play the disc.**
  6. **Press STOP to stop playback.**
- **To pause the disc playback, press STOP. Press PLAY to resume or press STOP again to discontinue play.**
  - Pressing Stop when playing a MP3 disc stops play instead of pausing playback.
7. **When playback finishes, press POWER to enter the standby mode. If you do not intend to use this player for an extended period of time, please remove the plug from the power supply socket.**

# BASIC OPERATION

## TV System Selection (NTSC/PAL)

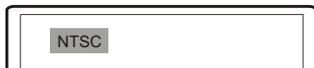


- Set the DVD player to match the TV set.

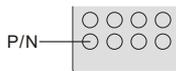
1. Press P/N button on the remote control to select PAL if the TV set is set to PAL.  
The TV screen should now show:



2. Press P/N button on the remote control to select NTSC if the TV set is set to NTSC.  
The TV screen should now show:



3. Press P/N button until you see "AUTO" if your TV set is a multi-system TV.  
The TV screen should now show:



## NOTES

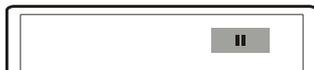
- You cannot change the TV system when a DVD is playing. PAL/NTSC/AUTO can only be selected when the DVD player is stopped.
- Some disc functions may be dependant on the video system you use. Consequently, some functions may not be available in PAL that are available in NTSC.
- We suggest you set your unit and TV set to "AUTO" mode.
- Your DVD player's display system automatically detects the video system (NTSC or PAL).

## Pause/Step Playback



1. Press PAUSE/STEP button in playback status.

- Press PAUSE/STEP button once to pause playback, display on TV screen:



2. Press PAUSE/STEP button in pause mode, each press moves one frame forward.  
Press PAUSE/STEP button continuously to step playback.



# BASIC OPERATION

- No step playback mode is available when playing CD and MP3.

## 3. To restore playback, press the PLAY button.

### NOTE

- When you set the screen saver mode to ON (See Page 34 for details), the display on the TV screen shows the screen saver after the picture on the TV remains still for about 2.5 minutes (i.e. pause mode, stop mode, menu select, set up menu, no disc mode, etc.) While in screen saver mode, press any button to turn off the screen saver and refresh the TV display. (Pressing POWER or STANDBY will turn off your player.)

## OSD (On Screen Display)

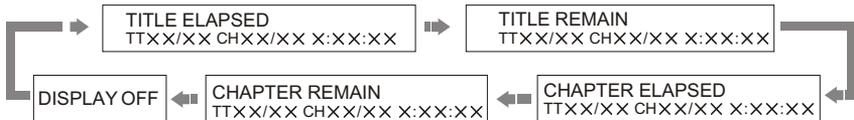


### 1. Press OSD button.

- Disc information is displayed on screen when you press the OSD button.
- Press OSD button to display the following information:



DVD disc:



The title number & chapter number will also display while in “TITLE REMAIN”, “CHAPTER REMAIN” and “CHAPTER ELAPSED” display modes.

- Super VCD, VCD, CD:



The track number & chapter number will also display while in “SINGLE REMAIN”, “TOTAL ELAPSED” and “TOTAL REMAIN” display modes.

### NOTE

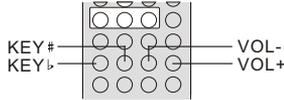
OSD is not available for MP3 or picture CD.

# BASIC OPERATION

## KEY/Volume Control



1. Press **VOLUME** button on TV set or Amplifier to adjust volume.



2. Press **VOLUME** button on the remote control of this unit.

- Use Volume+/- buttons on the main unit to set the maximum Volume level first. The Remote control will only adjust the volume up to the maximum volume set on the main unit. (i.e. If you set the main volume control to 10, the maximum Remote volume will be 10.)
- Press VOLUME+ button to increase volume.
- Press VOLUME- button to decrease volume.
- The maximum volume is 20.

3. Press the **KEY** button to adjust the audio to your singing range.

- Press KEY# button to increase the pitch, each time you press KEY the audio is adjusted one level. The maximum adjustment is 16 levels.
- Press KEY ↓ button to decrease the pitch, each time you press KEY the audio is adjusted one level. The maximum adjustment is 16 levels.

## DVD Menu Playback

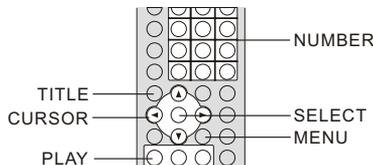


- Some DVD discs are made with a title menu or chapter menu function.

1. Press **MENU** to display the menu on your TV screen. Select your desired option using the cursor or number buttons on the remote control.



2. Press the **CURSOR** buttons to select a track, then Press **PLAY** or **SELECT** to play your selection.



# BASIC OPERATION

## NOTES

- Press TITLE to return to the title menu.
- Press MENU to return to the initial or main menu.
- The return location varies from disc to disc.
- To use the Direction Buttons on the navigation ring, press the Function Select button once. 'Dir Key' will appear on the screen. Press the Function Select button twice to exit this mode.

## PBC (PlayBack Control) Functions

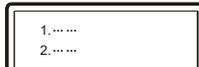


- PBC functions are only available on SVCD and VCD2.0 discs created with PBC functions.

### 1. Main menu displays on TV screen:



- Press NUMBER buttons to select. For example: Select 1 from the main menu shown on the TV screen here:



### 2. The submenu below is displayed on screen after you enter menu option 1:



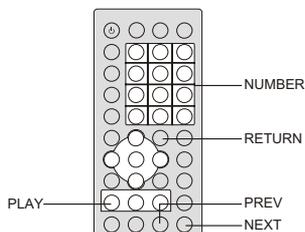
## NOTE

The Submenu function varies from disc to disc.

3. Press NEXT or PREV button to move between pages.
4. Press NUMBER buttons to select options within the submenu. For instance, if you press number 5, the player begins playback with track 5.



5. Press RETURN to go back to the submenu. Press again to return to main menu.
6. Press MENU to shut off the PBC and start the sequential playback of the disc.



# BASIC OPERATION

## Direct Selection Playback Function by Number Buttons

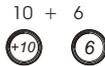


### 1. Insert disc and press NUMBER buttons to select tracks for play.

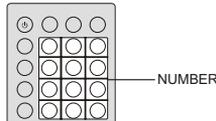
- Press the NUMBER button 1-9 to direct select the track if the track number is less than 10. For example: to select the seventh track:



- Press the +10 button and then the NUMBER buttons 0-9 to direct select a track if the track number is 10 or higher. For example: to select the 16th track:



- Press the +10 button twice and then the NUMBER buttons 0-9 to select a track if the track is 20 or higher.



## NOTE

- This function is effective only when the PBC mode is off when playing VCD or VCD2.0 discs. When the PBC mode is on, this function is void and you should press the RETURN button to return to the main menu to select a track. If you cannot select the track by the number buttons, turn the PBC On or OFF, then try again.

## Language/Audio Channel Selection



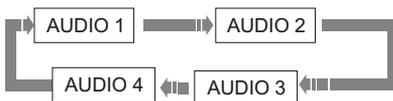
### 1. Press AUDIO button.

- You may select the language you desire when playing multi-language DVD, SVCD discs with multi-language options.

DVD disc:



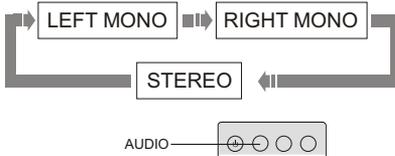
SVCD disc:



# BASIC OPERATION

- You may select to hear audio output from the left, right or stereo output when playing multi-channel CD or VCDs. Each time you press AUDIO you cycle through the various audio modes (LEFT MONO/RIGHT MONO/STEREO).

VCD,CD discs:



## NOTES

- Language options vary from disc to disc.
- Some dual-language VCD discs include the option to select the language you prefer by pressing AUDIO button.
- When playing some DVD discs, pressing LANGUAGE may cause the track to play back from the beginning.

## MUTE



- Press MUTE in playback mode to switch off the audio.

### 1. MUTE.

- Press the MUTE button and the word of MUTE is displayed on TV screen.



### 2. Resume audio output.

- Press MUTE button again to unmute.



## NOTE

- Try pressing MUTE if you don't have sound. You may have accidentally turned sound off.

# PLAY OPERATION

## Fast Playback



- You can select forward or reverse playback to search for a certain point on disc.  
(Press PLAY at any time to resume normal playback.)

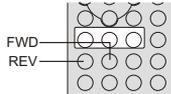
### 1. Press FWD and the player starts fast forward playback.

- Each time you press FWD the playback speed will cycle through the following speeds:  
(Standard play speed follows 32X playback)



### 2. Press REV and the player starts fast reverse playback.

- Each time you press REV the playback speed will cycle through the following speeds:  
(Standard play speed follows 32X playback)



## Slow Playback



- You may slow playback to the desired speed and direction as shown in the following:

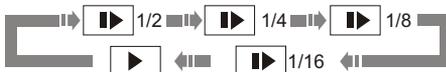
### 1. Press SLOW to cycle through the various playback modes. The following information will be displayed on screen:

#### ■ DVD Playback



- Press PLAY in slow playback to resume normal speed.

#### ■ SVCD, VCD Playback



- Press PLAY in slow playback to resume normal speed.



# PLAY OPERATION

## Repeat Playback



- The repeat function enables a title/chapter/track/disc to be repeated.

1. Press REPEAT to cycle through the repeat options shown below:

■ DVD disc:



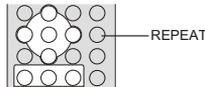
■ SVCD, VCD, CD discs:

- Repeat playback can be performed on SVCD or VCD2.0 only when the PBC is off.

Repeat will work on VCD1.1 or CDs when PBC is on or off.



■ MP3 disc:



## Repeat the Selected Section



- When playing disc, Press A-B button to repeat playback of a certain section.

1. During normal playback, Press A-B button at the desired point (point A) to set the beginning.

Display on TV screen:



2. During normal playback, Press A-B button at the desired point (point B) to set the end.

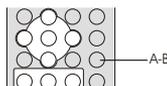
Display on TV screen:



- The player returns to point A automatically to repeat the selected section (A-B).

3. Press A-B for the third time.

- Normal playback resumes.



# PLAY OPERATION

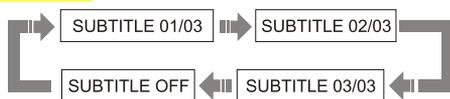
## NOTES

- The A-B repeat function is not available for some discs.
- Sections can only be selected in the same track (when) in PBC mode.

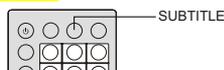
## Subtitle Selection

DVD

1. Press **SUBTITLE** to select the desired language.
- When playing DVD discs recorded with subtitles of several languages, it is possible to select subtitles in different languages.
- Each time you press **SUBTITLE** a different subtitle language option will be displayed on your TV screen.



- The maximum number of subtitle languages is 32 for DVD discs, but the actual number depends on the manufacturer.



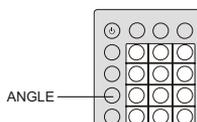
## Angle Selection

DVD

1. Press **ANGLE** and the TV screen displays:



2. Press numbered buttons to select the desired playing angle.



3. To resume normal playback, press **ANGLE** until you are back to the default angle.

## NOTES

- The number of the angles varies with different DVD discs.
- This function only applies to the discs recorded with different angles.

## Playback from a Desired Point



### ■ Playing DVD discs.

- Input the time, title or chapter directly. The content can be found quickly and playback started from the selected point.

#### 1. Title, chapter search. For example, search Chapter 2, Title 6:

- Press GOTO and the TV screen displays:

TITLE 03/30 CHAPTER █ /02

- Press CURSOR to highlight the title number, as shown in the figure:

TITLE █ /30 CHAPTER 01/02

- Press NUMBER "6" to select title 6, as shown in the figure:

TITLE 06 /30 CHAPTER 01/02

#### 2. Title time search.

- Press the GOTO button until the TV screen displays the following picture. Then Press the NUMBER buttons to input HOUR, MINUTE and SECOND.

TITLE 06/30 TIME █:█:█

#### 3. Chapter time search.

- Press the GOTO button until the TV screen displays the following picture. Then Press the NUMBER buttons to input HOUR, MINUTE and SECOND.

CHAPTER 01/04 TIME █:█:█

### ■ Playing SuperVCD, VCD and CD discs.

#### 1. Disc time search.

- Press the GOTO until the TV screen displays the following picture. Press the NUMBER buttons to input HOUR, MINUTE and SECOND.

DISC GOTO █:█:█

#### 2. Track time search.

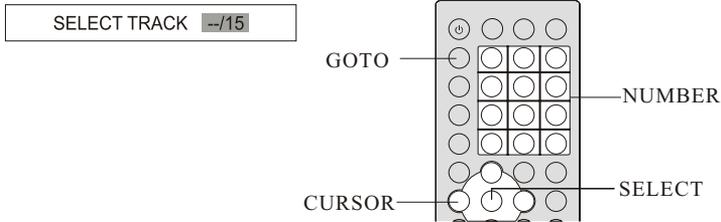
- Press the GOTO button until the TV screen displays the following picture. Then Press the NUMBER buttons to input HOUR, MINUTE and SECOND.

TRACK GOTO █:█:█

# PLAY OPERATION

## 3. Select a track.

- Press the GOTO button until the TV screen displays the following picture. Then Press the NUMBER buttons to input the track number.



## Power Spectrum Meter(PSM) graphic equalizer



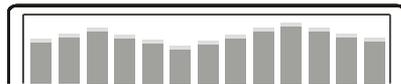
1. During normal playback, press PSM to open the Power Spectrum Meter.

- Display on TV screen:

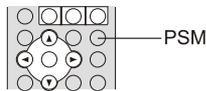


- 2 Press PSM to open the second Power Spectrum Meter.

- Display on TV screen:



- 3 Press PSM again to close PSM.



## Zooming the Displayed Frame



- Zoom in/out of the player frame.

1. When playing a disc, press the ZOOM button. The TV screen displays:



- The frame is magnified.

# PLAY OPERATION

2. Press the ZOOM button again and again, the TV Screen displays:



- The frame is magnified again.

3. Press the ZOOM button again. The TV screen displays:



- The frame is magnified for the third time.

4. Press the ZOOM button for the fourth time. The TV screen displays:



- The frame is reduced in size.

5. Press the ZOOM button for the fifth time. The TV screen displays:



- The frame is reduced again.

6. Press the ZOOM button for the sixth time. The TV screen displays:



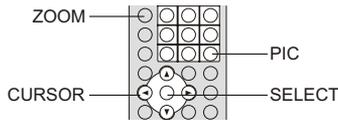
- The frame is reduced for the third time.

7. When the frame is magnified, press the CURSOR buttons to move the frame.

- You can focus on any desired part of the frame.

3. When the frame is magnified, Press the CURSOR buttons to move the frame.

- You can focus on any desired part of the frame.



## Picture Quality Setting

- Adjust the brightness, contrast, chroma, saturation of pictures on the LCD display.

(Use PICTURE on the DVD player or PIC on the remote control.)

1. Press the PICTURE button repeatedly to cycle through the picture settings:



2. When the screen displays the desired item, use the left CURSOR button to decrease the value or use the right CURSOR button to increase the value.

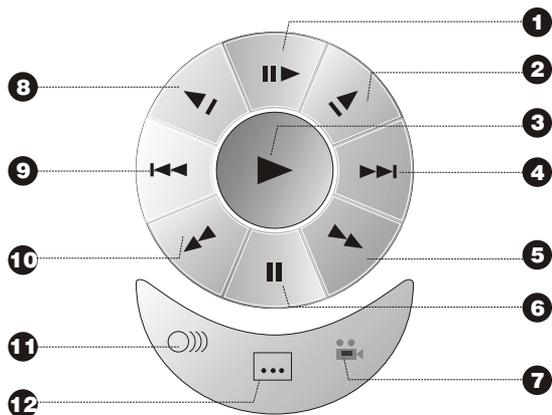
3. The picture quality settings (except MODE) adjusted by the PICTURE button will not be saved after powering off. If you want to save the picture quality settings you must set the video preferences in the setup menu.

# PLAY OPERATION

## Virtual Keyboard

The brand-new VIRTUAL KEYBOARD function enables you to perform some easy operations and configurations when enjoying a movie **without using the remote control.**

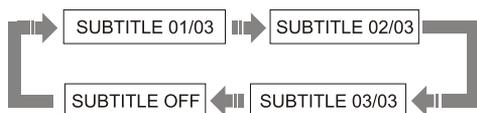
1. Press **FUNCTION SELECT** on the front panel twice. A virtual keyboard will appear on the screen as shown in the figure **below:**



- |                         |                |                         |                 |
|-------------------------|----------------|-------------------------|-----------------|
| 1 Step                  | 4 Next         | 7 Angle                 | 10 Fast Reverse |
| 2 Forward Slow Playback | 5 Fast Forward | 8 Reverse Slow Playback | 11 Audio        |
| 3 Play                  | 6 Pause        | 9 Prev                  | 12 Subtitle     |

2. Use the four direction arrows to select the function you want to **set.** Press **SELECT** for verification. For instance: To select **SUBTITLE**

- Press the direction arrows to select the subtitle icon. Each time you press **SELECT** the subtitle settings move to the next available option as follows:



- This time the front panel NEXT/PREV/PAUSE/STOP buttons correspond to RIGHT/LEFT/DOWN/UP respectively.

3. To exit the virtual keyboard, press **FUNCTION SELECT** again.

- The virtual keyboard function is applicable to DVD, SVCD or VCD discs only.

# PLAY OPERATION

## Browser

The brand-new interface BROWSER enables you to conveniently perform DVD discs' functions of title, chapter, audio, subtitle, angle, title time, chapter time, repeat play and time display, and SVCD/VCD discs' functions of track, disc time, track time, repeat play and time display.

For example: Playing DVD:

### 1. Press **BROWSER**, the screen displays as follows:



### 2. Press **UP/DOWN** arrows to select the desired item.

For example, press UP/DOWN arrows to select the desired chapter. Press ENTER for verification as shown in the figure.



- If you want to use the navigation keys on the front panel, press **FUNCTION SELECT**, 'DIR Key' will appear on the screen. This time the front panel **STOP/NEXT/PAUSE/PREV** buttons correspond to **UP/DOWN/RIGHT/LEFT** respectively. Press **FUNCTION SELECT** again, 'DIR Key' goes off the screen and the navigation functions are invalid.

### 3. Press **numbered buttons** to select the desired chapter.

For example, press 0 and 4, this player starts playing the fourth chapter as shown in the following figure.



- The input number should be within the optional numbers.
- 4. To exit the browser interface, press **BROWSER** again.
- The browser is applicable to DVD, SVCD or VCD discs only.

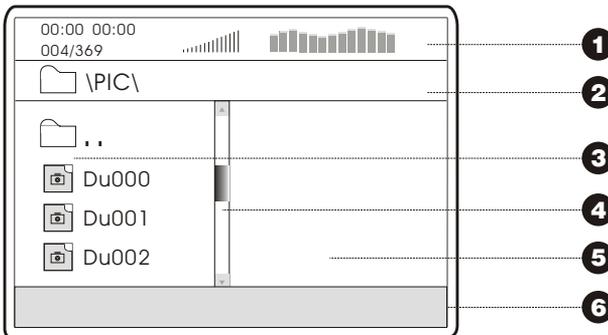
# PLAY OPERATION

## MP3 and JPEG File Playing

MP3 utilizes the third layer audio compression mode of the international standard MPEG with the compression ratio as 12:1. Employing MP3, one disc can record 600 minutes of music or 170 songs and the sound quality is the same as CD.

JPEG (Joint Photographic Experts Group) is the most widely used picture compression and storage format today. Utilizing the high efficiency compression algorithm, JPEG compresses the original picture 15 to 20 times with excellent picture quality. JPEG features small file sizes, convenient application and is supported by most picture processing software.

This player's strong decoding capability can decode and play the files with the above two formats. Thus you can view JPEG images as well as listen to MP3.

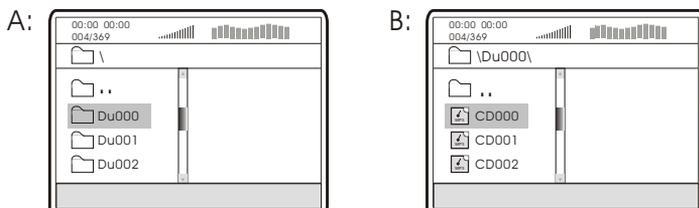


- |  |   |
|--|---|
| <b>1</b> Status window<br>Displays the current status information. | <b>4</b> Scroll bar window<br>Indicates the current file's position.    |
| <b>2</b> Directory window<br>Displays the current path.            | <b>5</b> Preview window.<br>JPEG image preview.                         |
| <b>3</b> File window.<br>Displays the current path's files.        | <b>6</b> Information window.<br>Displays the current operating prompts. |

# PLAY OPERATION

## 1. Playing MP3 File

When you insert a MP3 disc, the TV screen displays the operation menu as shown in Figure A. (The displayed contents vary with the disc.)



- Press UP/DOWN arrows to select the desired directory. Press SELECT for verification. For example, you select the directory DU000 in Figure A and press SELECT as shown in Figure B. The window returns back to the previous directory when you select [ .. ] in the first line or press LEFT arrow.
- Press UP/DOWN arrows in Figure B to select the desired MP3 file. Press SELECT for verification. This player starts playing MP3 songs.
- If you want to use the navigation keys on the front panel, press FUNCTION SELECT and the switch icon appears on the screen. This time the front panel STOP/NEXT/PAUSE/PREV buttons correspond to UP/DOWN/RIGHT/LEFT respectively. Press FUNCTION SELECT again and the switch icon goes off and the navigation functions are invalid.

## 2. Playing JPEG File

When you insert a disc with JPEG files, the TV screen displays the operation menu as shown in the figure. The operating method is the same as operating MP3 files except that the preview image will appear in the preview window when selecting a JPEG file. Press select to display the selected photo.



## 3. Plays a disc with both MP3 and JPEG files

If a disc is composed of both MP3 and JPEG files, you can enjoy both of them simultaneously. First, you can play MP3 songs by following preceding instructions; then, you can enter the directory with JPEG files and view images by following the instructions above.

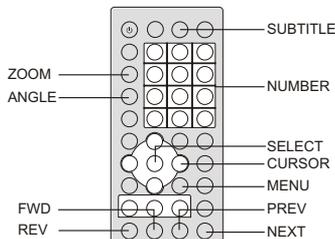
# PLAY OPERATION

## ■ OTHER BASIC OPERATING MEANS

1. Press the PREV or NEXT to skip to the previous or the next page in stop mode.
2. Press ANGLE to toggle the file playback mode and the directory playback mode.

## ■ JPEG FILES AND FUNCTIONS

1. Press SUBTITLE to switch to different JPEG display modes when playing JPEG files. There are 16 optional modes available.
2. When playing JPEG files, Press ZOOM to start go into zoom in/out mode. Press ZOOM again to stop zooming in/out. Use the FWD>> button to zoom in the picture and use the REV<< button to ZOOM out the picture while in zooming in/out mode.
3. When the zoom in/out mode is active, Press FWD to magnify the picture. It can magnify the frame twice the size of the original picture. Press the REV button to reduce the picture. It can reduce the frame to half of the original.
4. When playing JPEG files, Press STOP to exit the preview mode. A total of 12 pictures can be displayed on screen at the same time in JPEG mode. Scroll through the rest of the pictures on the subsequent pages by pressing the NEXT button to move forward to the next frame. Press PREV to return to the previous frames. You can also press the NUMBER buttons or DIRECTION arrow to select a desired picture. Press the SELECT button to confirm.
5. Press the MENU button to exit preview playback mode.
6. Press the DIRECTION arrow to rotate a picture when playing JPEG files.



## NOTE

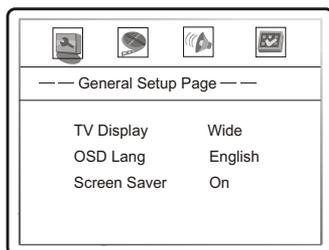
1. When the button is invalid, the TV screen displays:



- Press the effective button again.

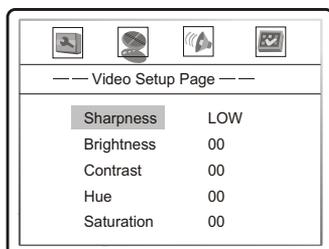
## Function Setup

1. Press **SETUP**. The TV screen displays:



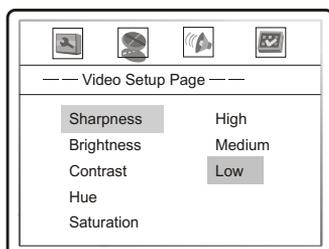
2. Press **the LEFT/RIGHT arrow** to select the desired **function** to be changed.

For example, if you want to set **up** this player's video, please press LEFT/RIGHT arrows to select VIDEO SETUP PAGE. Press SELECT to **display the options**. The video setup page **is displayed on the screen as shown below**:



3. Press **UP/DOWN arrow** to select the desired item you want to set and press **SELECT**.

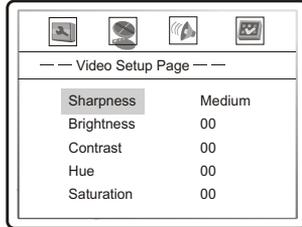
For example, press UP/DOWN arrows to select SHARPNESS and press SELECT. The sharpness **options appear** on the screen.



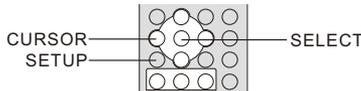
# FUNCTION SETUP

4. Press UP/DOWN arrow to select the desired value. Press SELECT to confirm it.

For example: Press UP/DOWN arrow to select "Medium", than press SELECT, the TV screen displays:

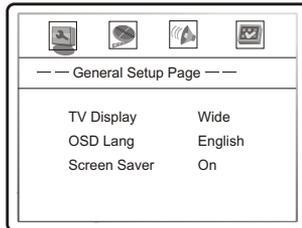


5. Press SETUP to exit the setup menu.



If you want to use the navigation keys on the front panel, you can do so without pressing FUNCTION SELECT to change the button's function. The STOP/NEXT/PAUSE/PREV buttons automatically correspond to UP/DOWN/RIGHT/LEFT respectively, when in SETUP mode.

## General Settings



1. TV Display: To set the aspect ratio of this player's output image.

- Optional settings: NORMAL/PANSCAN, NORAM/LETTER BOX, WIDE.
- Default: WIDE.

### NOTES

- The playing effects are contingent upon the disc's recording aspect ratio. The aspect ratio you selected in setup may not be an available option on the disc.
- 16:9 is only applicable to the 16:9 TV.
- Please select the aspect ration that matches your TV.
- The LCD screen utilizes the 16 by 9 aspect ratio.

# FUNCTION SETUP

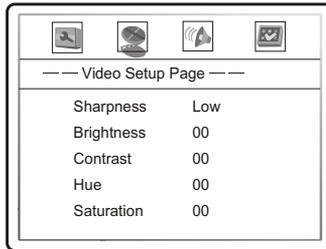
2. **OSD Lang:** This item is used to set the language used on the screen prompts.

- Optional settings: ENGLISH, FRENCH, SPANISH.
- Default: ENGLISH.

3. **Screen saver:** Turn the screen saver function on or off.

- Optional settings: OFF, ON
- Default: ON

## Video Setup



1. **Sharpness:** Used to set the sharpness of video output.

- OPTIONS: High, Medium, Low.
- Default: Low.

2. **Brightness:** Used to set the brightness of video output.

3. **Contrast:** Used to set the contrast of video output.

4. **HUE:** Used to set the chroma of video output.

5. **Saturation:** Used to set the saturation of video output.

- Brightness, contrast, chroma and saturation adjustment:

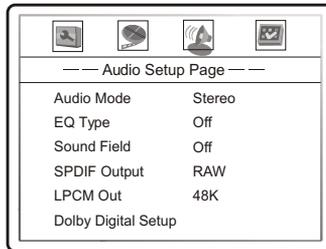
A. Press UP/DOWN arrow in the video setup menu to select the desired item you want to adjust. Press SELECT button to change the item's current setting.

B. Press LEFT/RIGHT arrow to adjust the setting value (LEFT decrease, RIGHT increase).

C. After finishing your adjustment, press SELECT to return to the video setup menu.

# FUNCTION SETUP

## Audio Setup



**1. Audio output mode: Set the audio output mode to make the multi-channel audio into two-channel outputs.**

- Optional settings: LT/RT, STEREO, V SURR.
- Default: STEREO

**2. EQ type: To set EQ modes.**

- Optional settings: Off, ROCK, Pop, Live, Dance, Techno, Classic, Soft.
- Default: Off.

**3. Sound Field: To set different sound field effects.**

- Optional settings: Off, Concert, Living room, Hall, Bathroom, Cave, Arena, Church.
- Default: Off.

**4. SPDIF Output: To set the bit stream type of the digital output.**

- Optional settings: SPDIF/RAW, SPDIF/PCM.
- Default: SPDIF/RAW.

**5. LPCM Out: To set the output frequency of the 96K LPCM audio data to fit for different power amplifiers.**

- Optional settings: 48K, 96K.
- Default: 48K.

**6. Dolby Digital setup:**

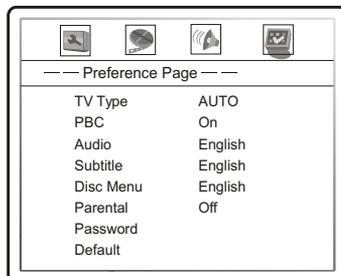
**A. L+R: To set the output means of the left or right audio when playing a Dolby disc with separate two-channel audio**

- Optional settings: Stereo, L-Mono,R-Mono, Mix-Mono.
- Default: Stereo.

**B. Dynamic compression: To set the linear compression ratio to get different compression result.**

- Optional settings: OFF、1/8、1/4、3/8、1/2、5/8、3/4、7/8、FULL。
- Default: OFF.

## Initial Setup



### 1. TV TYPE: To set the output video system of this player.

- Optional settings: AUTO, NTSC, PAL
- Default: AUTO.

### 2. PBC: To set the PBC status.

- When playing SVCD or VCD2.0 discs, if the PBC is ON, the menu is displayed on the screen and the player enters PBC mode; if the PBC is OFF, the player plays the disc in the disc's preprogrammed sequence.
- Optional settings: On, Off.
- Default: On.

### 3. AUDIO: To set the preferred audio language when playing.

### 4. SUBTITLE: To set the preferred subtitle language when playing.

### 5. DISC MENU LANGUAGE: To set the preferred disc menu language when playing.

- Optional audio/subtitle/disc menu languages: English, French, Spanish, Chinese, Japanese, Korean, Russian, Thai, others.
- Audio/subtitle/disc menu language default: English.

## NOTES

- Audio/subtitle/disc menu languages are applicable to DVD only.
- If the disc does not include your desired language, the player will select the disc-specified language to play.
- Selecting other languages: Press UP/DOWN arrows to move the cursor to OTHER item, press SELECT. Enter the your desired language codes, then press SELECT to save your additional language. (See additional language codes on page 44.)

# FUNCTION SETUP

6. **Parental :** Set the parental control ratings to prevent children from watching restricted contents. (The disc must support this function.)

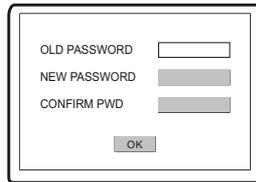
- Optional settings: KID, G, PG, PG-13, PGR, R, NC17, ADULT, OFF.
- Default: OFF.

## NOTE

● The parental control system is password protected. We suggest you change the password from the default to a new password only you will know.

7. **PASSWORD:** Set a four digit password to enable you to change the parental control ratings.

- Default: 7890.



A screenshot of a password change screen. It features three input fields: 'OLD PASSWORD' (a white box), 'NEW PASSWORD' (a grey box), and 'CONFIRM PWD' (a grey box). Below these fields is a small 'OK' button.

8. **DEFAULT:** Restores all settings to the default value except for the parental control and password settings.

## Useful notes

- In order to prolong the life of your player, we recommend waiting at least 30 seconds after switching it off before turning the unit back on.
- Turn off the power when the unit isn't being used.
- Only use the supplied power adaptor. Incorrect voltage will either keep the player from operating correctly or will permanently damage your unit.
- Some functions of the player may not be applicable to some discs.
- If the player halts occasionally, please turn it off and turn it on again.
- This player cannot play some SVCD discs with the VCD format.
- We suggest you minimize the volume before using the Audio Output.

## Troubleshooting

- Please check the following chart for solutions to your problem before contacting any service and support personnel.

Symptom	Cause	Correction
<b>No sound</b>	<ol style="list-style-type: none"> <li>1 . Signal not properly connected.</li> <li>2 . Disc warped or dirty.</li> <li>3 . Player in mute status.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Connect signal securely.</li> <li>2 . Clean your disc.</li> <li>3 . Press MUTE button again.</li> </ol>
<b>No picture</b>	<ol style="list-style-type: none"> <li>1 . Signal not properly connected.</li> <li>2 . TV not set for proper system.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Connect signal securely.</li> <li>2 . Reset the AV/TV status of your TV set.</li> </ol>
<b>No color</b>	<ol style="list-style-type: none"> <li>1 . TV system not right.</li> <li>2 . TV set color not properly adjusted.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Press P/N button on the remote control to set the system.</li> <li>2 . Readjust color of your TV set.</li> </ol>
<b>No disc reading</b>	<ol style="list-style-type: none"> <li>1 . No disc in the player.</li> <li>2 . Disc not properly loaded.</li> <li>3 . Condensation on the laser head.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Load a disc.</li> <li>2 . Reload a disc, with the label side facing up.</li> <li>3 . Turn on the player, unload the disc and leave it on for about one hour.</li> </ol>
<b>Remote control failure</b>	<ol style="list-style-type: none"> <li>1 . Remote control not pointing to the sensor window.</li> <li>2 . Remote control's operating distance more than 8 meters away from the sensor window of the player</li> <li>3 . Batteries low.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Use the remote control properly.</li> <li>2 . Replace the battery.</li> </ol>
<b>Temporary function failure</b>	<ol style="list-style-type: none"> <li>1 . Mal-fabricated disc used.</li> <li>2 . Wrong buttons pressed.</li> <li>3 . Foreign static electricity leaks inside the enclosure.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Wait for 5 to 10 seconds and this player will restore normal functions.</li> <li>2 . Press other buttons.</li> <li>3 . Restart this player after powering this player off for 1 to 2 minutes.</li> </ol>
<b>Picture rolling</b>	<ol style="list-style-type: none"> <li>1 . TV set system not properly adjusted.</li> </ol>	<ol style="list-style-type: none"> <li>1 . Readjust system of your TV set.</li> </ol>
<b>Too much in interference stripes on image</b>	<ol style="list-style-type: none"> <li>1 . The rechargeable battery becomes low</li> </ol>	<ol style="list-style-type: none"> <li>1 . Recharge the battery.</li> <li>2 . Use the power adapter.</li> </ol>

## Specifications

<b>Disc Types</b>	DVD VIDEO SVCD VCD1.0, 1.1, 2.0 CD-DA MP3
<b>Output</b>	Analog audio output Stereo output, Headphone output Digital Audio Output Optical Out jack Video Output S-Video Output Y,C
<b>Video Characteristics</b>	Video Amplitude 1.0Vp-p(75 Ω) S-Video Output Amplitude Y:1.0Vp-p(75 Ω), C:0.286Vp-p(75 Ω)
<b>Audio Characteristics</b>	Frequency 20Hz~20KHz(±1dB) Signal-to-noise Ratio >90dB Total harmonic distortion <0.01%
<b>General Specifications</b>	Power Supply DC 9V 2A Power Consumption 16W Dimensions 205X149X28.4 (mm) Mass 784g
<b>Operating Temperature</b>	5°C~35°C
<b>Operating Humidity</b>	15~75% (no condensation)

- Specifications are subject to change without notice.
- We do not guarantee that all discs can be played smoothly due to the disc quality, disc recording quality and recording format.

## Terms

◆ **525/60**

A scan system with 525 horizontal lines and 60 interlacing fields (30 frames) per second. Applied by NTSC.

◆ **625/50**

A scan system with 625 horizontal lines and 50 interlacing fields (25 frames). Applied by PAL and SECAM.

◆ **ANALOG**

A level theoretically changes infinitely in time and space. As compared to DIGITAL.

◆ **ANGLE**

A specific view of a scene recorded from a specific angle in DVD-Video. When viewing the specific scenes, different angles can be selected.

◆ **CD**

Abbreviation for Compact Disc. A laser disc storage format developed by Philips and Sony.

◆ **CD-DA**

Abbreviation for Compact Disc Digital Audio. The original music CD format storing audio information as digital PCM data.

◆ **CD-R**

The extension of the CD format. Data can be recorded once by utilizing coloring matter subliming technology.

◆ **CD-ROM**

The extension of the CD-DA format. The computer data is stored in the digital format.

◆ **CHAPTER**

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

◆ **COMPRESSION**

A process which eliminates redundancy of digital data to reduce the necessary storing or transmitting data size. Lossless compression only eliminates the enough redundancy to make data restore correctly. Lossy compression sacrifices the additional data to achieve a larger compression.

◆ **CONTRAST**

The range between the brightest and the darkest of an image.

◆ **DAC (Digital-to-analog converter)**

A circuit converting the digital data (audio or video) to analog data.

◆ **DIGITAL**

Expressed by numerals. For example, a computer utilized a group of discrete numeric values. The analog data can be digitized by sampling.

# OTHERS

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## ◆ **Dolby Digital**

An audio encoding system developed by Dolby Laboratories and recognized as the international standards. Dolby Digital is the most common system of the DVD-Video encoding audio and the normalized audio compression system of 525/60 (NTSC) CD.

## ◆ **DOWNMIX**

Changing multi-channel audio to dual channel stereo audio by utilizing Dolby Surround processing.

## ◆ **DVD**

Abbreviation of Digital Video Disc or Digital Versatile Disc. An audio/video/data storage system based on 12cm and 8 cm disc.

## ◆ **DVD-R**

A DVD version. Data can be recorded once by utilizing coloring matter subliming technology.

## ◆ **HUE**

The color of ray or pixel. The color characteristics are depending on the ray's main elements' wavelength.

## ◆ **INTERLACE**

A scan system. In scanning, the technique of using more than one vertical scan to reproduce a complete image. In television, 2:1 interlace is used, giving two vertical scans (fields) per frame; one field scans odd lines, and one field scans the even lines of the frame.

## ◆ **ISO 9660**

An international standard for the file system used in CD-ROM.

## ◆ **Macrovision**

A recording protection technology. It alters the signals. The playback looks normal in most TVs. However, when the recorded materials are played back, pictures look very distorted and invisible. Macrovision utilizes the characteristics of the AGC circuit and VCR color synchronous decoding circuit to interfere recording.

## ◆ **MPEG (Moving Pictures Expert Group)**

An international committee who established a series of compression stands of MPEG audio and video.

## ◆ **MULTIANGLE**

Various angles for the scene (viewpoints of the video camera) are recorded on some DVDs.

## ◆ **MULTILANGUAGE**

Several languages for the audio track or subtitles in a picture are recorded on some DVDs.

## ◆ **SATURATION**

The color's intensity or brightness.

## ◆ SIGNAL-TO-NOISE RATIO

Ratio of pure signals to irrelevant noise like tape noise or video interference. It is measured by dB. The analog recordings always have noise. The digital recordings have no noise provided that data are filtered at the front end without compression.

## ◆ SURROUND SOUND

There are speakers in front of and behind audiences to create a multi-line audio system composed of surround simulation and directional audio source sound fields.

## ◆ TITLE

The longest section of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

## ◆ TRACK

Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

# OTHERS

## Language Code List

Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French

Code	Language Name
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Georgian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian, Lettish

# OTHERS

Code	Language Name
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Norwegian
7982	Oriya
8065	Panjabi
8076	Polish
8083	Pashto,Pushto
8084	Portuguese
8185	Quechua
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian

Code	Language Name
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Vlcapuk
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

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