

User Manual

FEATURES

Compatible With DVD, Super VCD, VCD, CDDA, CD-DVD, JPEG CD, CD+G and MP3 Media Format.

This DVD player can play a variety of disc media including DVD Video, Video CD, CDDA, Super VCD, CD-DVD, Mini-DVD and MP3 media format.

2/5.1 Channel Analog Audio Output

This DVD player can output down mixed audio with LT/RT, Stereo, and 5.1 Dolby® Surround modes.

Dolby® Digital & DTS® Digital Audio Output Support

This DVD player can send Dolby® Digital or DTS® Digital audio data via its built-in digital audio output to an external Dolby® Digital or DTS® Digital decoder.

High Quality 96kHz/24bit Audio D/A Converter

This DVD player features a 96KHz/24Bit D/A converter for superior audio reproduction of encoded discs.

10-Bit 27Mhz D/A Video Converter

This DVD player's 10-bit D/A converter is four times more accurate than conventional 8-bit converters. The result is artifact-free and crystal clear video image.

Auto NTSC and PAL Video Disc Conversion

This unit can play NTSC and PAL format discs. This DVD player can automatically convert either format to match your TV set. For example, if your TV set is a NTSC system TV and you're playing a PAL format disc, this DVD player will automatically convert the PAL format signal to NTSC format signal to play on your TV.

X1.5/X2X3 Video Zoom Support

The user selectable digital video zooms out zoom-in on a specific portion of a video image.

Multi-Speed Fast Forward/Reverse Scan

The digital fast forward/reverse scan is capable of scanning speeds of X2, X4, X6, and X8.

Multi-Speed Slow Motion Forward/Reverse Scan

This DVD player offers perfect slow motion scans in the following speeds: X1/2, X1/4, and X1/8.

Volume Control of Analog Audio Output

This DVD player can control the volume of analog audio output from remote control.

PACKAGE CONTENTS

Please verify that the following items are included within the DVD carton. If items are missing, please promptly return this unit to the retailer for an exchange.



DVD Player x1



Remote Control Unit x1



AAA Batteries x2



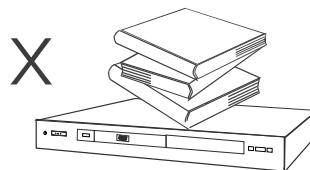
SCART Cable x1



User Manual x1



Speaker x6



PRECAUTIONS

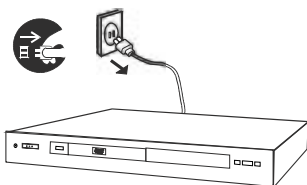
Please read the following carefully to get the best and safest performance from this DVD player

Power Supply

Make sure to use the correct power outlet as rated on the back of the DVD unit. (AC 100 – 120V AC 220-240V).

Power Cord

- Do not put any heavy objects on top of the power cord to avoid fires or electrical shocks caused by cord damage.
- Unplug the power cord if the unit will not be used for a long time.



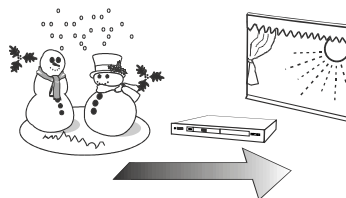
Usage and Storage

- Do not remove the top cover to avoid possible electric shock from touching the inside of this unit.
- Do not place any heavy objects on top of this unit.

Unit Placement

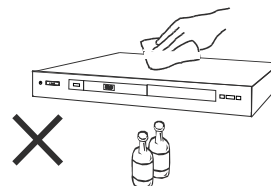
- Do not place this unit in locations with:
 - Vibrations
 - High humidity
 - Poor ventilation
 - Direct sunlight
 - Extremely high or low temperatures
- This unit should be placed on a horizontal surface only.
- Keep this unit away from television sets, radios, computers and loudspeakers to avoid magnetic field interference.

Condensation



Condensation may result from moving the unit from a cold place to a hot place. Please turn the power on for 1 to 2 hours before using this unit if condensation occurs.

Unit Cleaning



Clean the front panel and the body of the unit with a dry soft cloth. Other areas can be cleaned using a soft cloth moistened with a mild detergent. Do not clean with evaporative solutions to avoid possible damage to the unit.

DISC CARE

Disc Usage

- Please hold all discs by their edges or the center opening as shown below. Do not touch the shiny surface of the discs.



- Do not stick labels or tape on the discs, and do not scratch or damage the discs.



- The disc spins at a high speed during playback. Do not use damaged, cracked, or warped discs because they could damage the unit.



Disc Cleaning

- Fingerprints or dirt on disc surfaces can weaken the light reflected from the disc and directly influence the signal quality. The poorer the signal quality, the poorer the playback performance. Keep the disc clean by wiping it straight out from the center with a dry soft cloth.



- If the disc is very dirty, wipe with a moist soft cloth, then follow with a dry soft cloth.
- Do not use record cleaning sprays, benzene, thinner, anti-static electricity liquids, or any other solvent. These may damage the disc surface.

Disc Storage

- Please keep the discs in their original cases to avoid bending the discs. Do not keep discs in locations with high temperature, high humidity, or direct sunshine. These conditions may also cause damage to the discs.
- Carefully read all instructions on the disc label.

DISC COMPATIBILITY CHART

This DVD player can play the following types of discs:

Type of Discs	Discs Mark	Contents	Disc Size	Maximum Playback Time
DVD video discs		Audio + Video (moving pictures)	12cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
VIDEO CD		Audio + Video (moving pictures)	12cm	Approx. 74 minutes
			8cm	Approx. 20 minutes
Audio CDs		Audio	12cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes

DVD and VCD Discs contain both video and audio and can support multiple audio tracks.

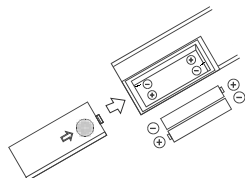
- CD: Discs have audio only.
- This unit complies with VCD ver. 1.0, ver. 2.0.
- This unit is compatible with CD-R & CD-RW.
- Picture CD (JPEG).

REMOTE CONTROL UNIT

To use the remote control unit to operate the DVD player, insert two batteries (size AAA) making sure that the + and - ends of the batteries are matched to the +/- marks printed inside the battery compartment. To use the remote controller, please point the remote control unit at the remote sensor on the DVD player.

Notes:

- Do not use different types of batteries together, or mix old and new batteries.
- When the remote control unit does not function correctly or its operation range reduces, please replace both batteries at the same time.
- If the remote control unit will be not used for a long time, please remove the batteries to avoid possible damage from battery leakage or corrosion.
- Keep the remote controller away from extremely hot or humid locations.
- Do not open the remote controller unit.



OPEN/CLOSE - Opens or closes disc tray.

A-B REPEAT - Displays A-B REPEAT playback.

REPEAT - Shows repeat playback for one title, or all titles on the disc

L/R - To switch the output audio in LEFT VOCAL, RIGHT VOCAL, MONO LEFT, MONO RIGHT, and STEREO modes during VCD playback. To switch the output audio in MONO LEFT, MONO RIGHT, and STEREO modes during AUDIO CD playback.

MUTE - To mute the sound of playback.

LANGUAGE - During playback of a DVD disc with more than two audio languages, this button changes the audio language played.

SUBTITLE - During playback of DVD discs with more than two subtitle languages, this button toggles between available subtitle languages

ANGLE - If the DVD disc contains multiple view angles, this button will change the viewing angle displayed by the DVD player.

TIME - Enables search mode by title/chapter and time.

PROGRAM - Displays program playback for VCD/Audio CD.

VOL SEL - Select the Volume controlling mode: MASTER MODE, FRONT MODE, REAR MODE, CENTER MODE or SUBWOOFER MODE.

KARAOKE - Switch KARAOKE ON/OFF.

▲ - Used for navigation within a selection menu.

TITLE - Enters the title menu for DVD discs.

ENTER - Confirms selection of an item in the menu.

◀ - Used for navigation within a selection menu

SETUP - Customizes DVD player settings.

PLAY/PAUSE - Under stop condition, press PLAY/PAUSE key to play the disc. Use PLAY/PAUSE key to pause playback during the normal play, press again to resume playback.

▶ - Engages slow-motion forward/reverse playback.

NEXT - Skips to the next chapter during playback.

PREV - Goes back to the previous chapter during play.

POWER - Turns on/off the DVD player unit.

EQ/CLEAR - Choose EQ for open and off/ Eliminate wrong

input when editing program.

DISPLAY - On-Screen display of the DVD player's operational status.

N/P - Switch TV system among NTSC, PAL, and MULTI.

V-MODE - Switch video output mode: S-VIDEO, SCART.

VOL- - Reduce the volume of analog audio output.

VOL+ - Increase the volume of analog audio output.

MENU/PBC - Some DVDs have complex sub-menus. This button allows access to these sub-menus. The button turns on/off the Playback Control (PBC) function during VCD playback.

➡ - Used for navigation within a selection menu.

⬇ - Used for navigation within a selection menu.

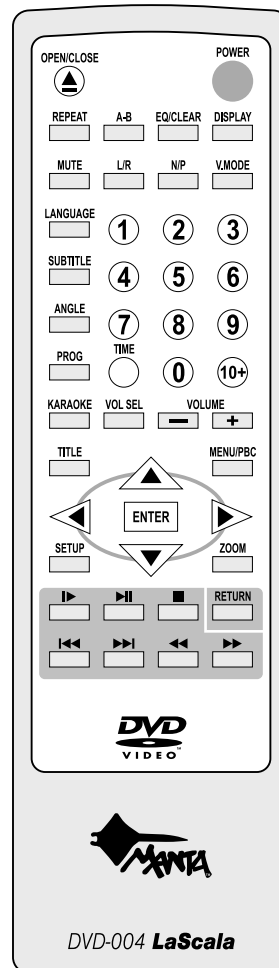
ZOOM - Enters the zoom mode during playback.

STOP - Stops playback.

RETURN - During playing disc version 2.0, press RETURN key, system will go back to PBC menu when PBC open.

REV - Fast reverse scan during playback.

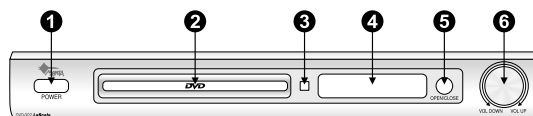
FWD - Fast forward scan during playback.



FRONT PANEL /DISPLAY WINDOW

Display Window

Front Panel



POWER Switch - Turn the unit's power on and off.

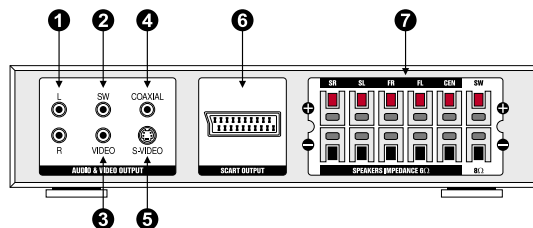
Disc Tray - Place Compact discs on.

Remote Sensor - Accept the operating instruction from the RC Display Window Display operation information.

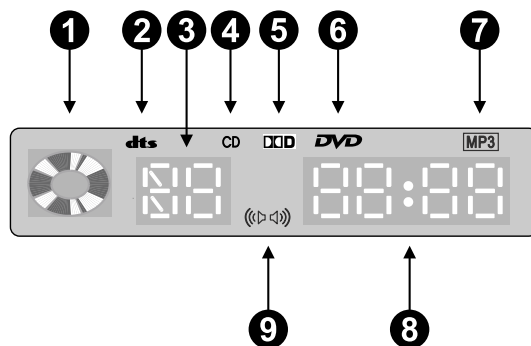
OPEN/CLOSE Button - Open or closes the disc tray.

MASTER VOLUME Knob - Increase or reduce the Volume played. Increase or reduce the Volume played.

Rear Panel



1. L/R Audio Output Jack
2. SUB WOOFER Output Jack
3. Video Output Jack
4. Coaxial Digital Audio Output
5. S-Video Output Jack
6. SCART Output
7. Speak System Terminals



1. Disc inside indicator
2. DTS® Digital Audio Indicator (See Fig. 1 below) Indicates the disc played contains DTS® Digital audio encoding
3. Title/Track Number Indicator Some DVDs contain multiple title pages. This indicator displays the title number currently in use or track number (CD) currently playing
4. SVCD/CD/VCD Indicator (See Fig. 2- 4 below) Identifies the inserted disc as audio SVCD and CD or Video CD.
5. DVD Indicator (See Fig. 5 below) Identifies the inserted disc as a DVD disc.
6. PBC Indicator for VCD Disc (See Fig. 6 below) Playback Control indicator.
7. MP3 Indicator (See Fig. 7 below) Identifies the inserted disc as a MP3 disc.
8. Elapsed Playback Time/Remaining Playback Time Indicator Displays elapsed playback time and playback remainder time..

9. Analog Audio Output Indicator Indicates the audio sound output from analog audio jacks.

(Fig. 1)



DVD TITLE is being read.



The disc tray is open.

(Fig. 2)



The disc tray is being closed.

(Fig. 3)



The system is loading information from the disc.

(Fig. 4)



No disc is loaded.

(Fig. 5)



Bad disc or Wrong region disc is being loaded.

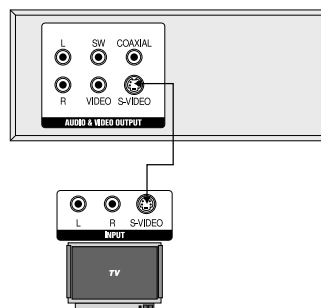
(Fig. 6)



(Fig. 7)



S-Video Output Terminal



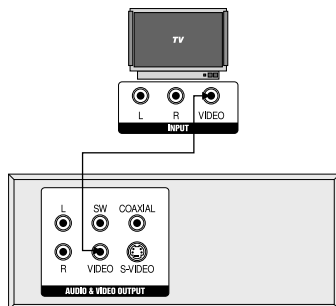
You will want to use S-video output with televisions or monitors equipped with an S-video input whenever component video inputs are not available. To activate the S-video output, you must set the DVD player's "PREFERENCES PAGE"/ "VIDEO OUTPUT" setting to S-VIDEO (Refer to p.17).

NOTE: S-video cable is not included with this player.

REAR PANEL AND CONNECTIONS

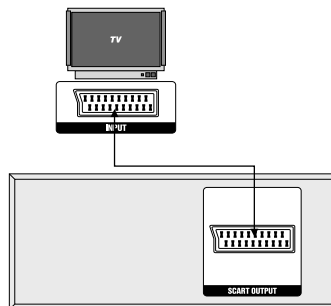
Video Output Terminals and Connections

Composite Video Output Terminal



Composite video output is the most commonly used video connection in use today and is supported by most televisions and A/V receivers. Composite video is set to display without user setup.

SCART Terminal

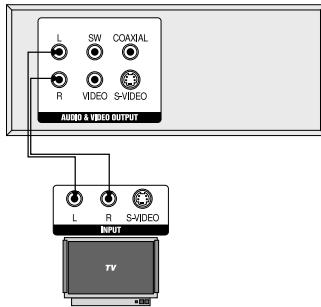


The SCART terminal can be connected to the TV set equipped with SCART connectors. Whenever the SCART terminal is used, you must set the DVD player's "PREFERENCES PAGE"/ "VIDEO OUTPUT" setting to "SCART".

WARNING: S-Video and SCART jacks cannot output signals simultaneously.

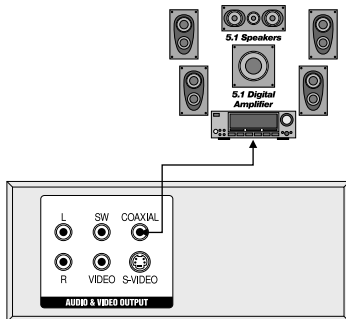
Audio Output Terminals and Connections

Down-Mixed Audio Output Terminals (L/R)



Use down-mixed (stereo) audio output terminals for connection with your television or other non-Dolby® Digital A/V receivers or amplifiers. These terminals provide down-mixed Dolby® Digital audio signals for standard 2-channel playback.

Coaxial Digital Audio Output Terminals

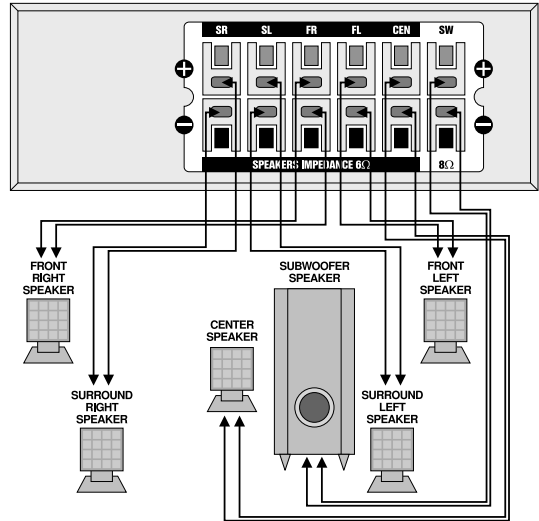


Use digital audio outputs for connection with an external Dolby® Digital or DTS® decoder. To use the Coaxial output, you will need to purchase an Coaxial cable for connection with the Coaxial Input Terminal of an AV amplifier. (Digital cable is not included with this player.)

NOTE: When connecting the Coaxial digital cable (optional):

Speaker System Terminals

Use Speaker System for connection with the external Speaker of FR, FL, SR, SL, Center and Sub woofer.



INITIAL SETTING

Press the **[SETUP]** button on the remote controller to set up the initial setting. The On-Screen Display (OSD) will display below:

SETUP MENU -- MAIN PAGE	
GENERAL SETUP	
SPEAKER SETUP	
AUDIO SETUP	
KARAOKE SETUP	
PREFERENCES	
EXIT SETUP	
GENERAL SETUP	

GENERAL SETUP

There are five available selections: TV DISPLAY, PIC MODE, ANGLE MARK, OSD LANG, CAPTIONS and SCR SAVER.

TV DISPLAY



16:9
Wide Screen

1. **16: 9 (wide screen):** Select this item when this unit connects a wide screen television unit.



4:3
Letter Box

2. **4:3LB (Letter Box):** As for televisions of general sizes, please select this item. The top and bottom of the television screen will appear black rims in the time of playing wide screen pictures.



4:3
Pan and Scan

3. **4:3PS (Pan and Scan):** Adaptable to televisions of general sizes. In the time of playing wide screen pictures, the left and right rims of pictures will be cut and the pictures will be shown on the full screen.

NOTES: Aspect ratios available for playback will be printed on the DVD disc rear packaging. Some DVDs are recorded in the Cinema wide format (16:9 aspect ratio). And some are recorded in the standard format (4:3 aspect ratio). Some DVD discs are recorded in both formats and may have the Pan Scan feature available. The Pan Scan feature if available will fill the entire screen in 4:3 TV screen. However it will cut some of the picture off at the two sides.

-- GENERAL PAGE --	
TV DISPLAY	NORMAL/PS
PIC MODE	NORMAL/LB
ANGLE MARK	WIDE
OSD LANG	
CAPTIONS	
SCR SAVER	
MAIN PAGE	
SET TV DISPLAY MODE	

PIC MODE

-- GENERAL PAGE --	
TV DISPLAY	
PIC MODE	AUTO
ANGLE MARK	FILM
OSD LANG	VIDEO
CAPTIONS	SMART
SCR SAVER	SSMART
MAIN PAGE	
SET PICTURE MODE	

ANGLE MARK

-- GENERAL PAGE --	
TV DISPLAY	
PIC MODE	
ANGLE MARK	ON
OSD LANG	OFF
CAPTIONS	
SCR SAVER	
MAIN PAGE	
ANGLE MARK ON/OFF	

During playback of a title with multiple angle sections, the message [CAMERA SIGN] will appear on the upper corner of the screen.

- When ANGLE MARK is set to "ON", the angle mark OSD will stay on the screen until the end of the playback title or chapter.
- When ANGLE MARK is set to "OFF", the angle mark OSD will stay on the screen for 3 sec and then disappear.

OSD LANGUAGE

-- GENERAL PAGE --	
TV DISPLAY	
PIC MODE	
ANGLE MARK	
OSD LANG	ENGLISH
CAPTIONS	RUSSIAN
SCR SAVER	
MAIN PAGE	
SET OSD LANGUAGE	

You can select the language for the setup menu or the operation message display. There are three available OSD languages: ENGLISH, and RUSSIAN for display. Default setting is "ENGLISH".

SCREEN SAVER

-- GENERAL PAGE --	
TV DISPLAY	
PIC MODE	
ANGLE MARK	
OSD LANG	
CAPTIONS	
SCR SAVER	ON
	OFF
MAIN PAGE	
SCREEN SAVER	

When this DVD player is idle (after about 1 minutes of inactivity), the screen saver can be activated to prolong the TV monitor's life.

NOTES: Caution: The DVD player can hold a still video image or OSD image on your television screen indefinitely. If you leave the still video image or OSD image displayed on your TV for a very long time. It may cause the permanent damage to your TV screen.

CAPTIONS

-- GENERAL PAGE --	
TV DISPLAY	
PIC MODE	
ANGLE MARK	
OSD LANG	
CAPTIONS	ON
SCR SAVER	OFF
MAIN PAGE	
CLOSED CAPTION	

Closed Captions (CC) are a standardized method of encoding text into an NTSC television signal. A TV can display the text with a built-in decoder. Closed Captions can be carried on DVD. If a DVD title contains a [CC] mark on the rear of the box, then you can set Captions to "ON" and read written captions on the TV screen. Default is set to "OFF".

SPEAKER SETUP

DOWN MIX

-- SPEAKER SETUP PAGE --	
DOWN MIX	LT/RT
CENTER	STEREO
REAR	5.1 CHANNEL
SUBWOOFER	
CNTR DELAY	
REAR DELAY	
TEST TONE	
SET DOWNMIX MODE	

- **LT/RT** - Please connect to a built-in Dolby Pro Logic receiver or amplifier to enjoy the Dolby Pro-Logic surround sound.
- **STEREO** - Down mixed Stereo L/R audio output.
- **5.1 CHANNEL** - Turn off the DOWN MIX function to enable the 5.1ch setting items.

CENTER

-- SPEAKER SETUP PAGE --	
DOWN MIX	
CENTER	ON
REAR	OFF
SUBWOOFER	
CNTR DELAY	
REAR DELAY	
TEST TONE	

SETUP CENTER SPEAKER

Set the CENTER output ON/OFF. (Setting to "ON" for CNTR DELAY)

CNTR DELAY

-- SPEAKER SETUP PAGE --	
DOWN MIX	
CENTER	
REAR	
SUBWOOFER	
CNTR DELAY	5MS
REAR DELAY	3MS
TEST TONE	1MS

SET CENTER DELAY

Adjust the delay time of CENTER output.

Note: Please set the "CENTER" item to ON first.

REAR

-- SPEAKER SETUP PAGE --	
DOWN MIX	
CENTER	
REAR	ON
SUBWOOFER	OFF
CNTR DELAY	
REAR DELAY	
TEST TONE	

SETUP REAR SPEAKER

Set the REAR output ON/OFF. (Setting to "ON" for REAR DELAY)

REAR DELAY

-- SPEAKER SETUP PAGE --	
DOWN MIX	
CENTER	
REAR	
SUBWOOFER	
CNTR DELAY	
REAR DELAY	15MS
TEST TONE	9MS

SET SURROUND DELAY

Adjust the delay time of REAR output.

Note: Please set the "REAR" item to ON first.

SUBWOOFER

-- SPEAKER SETUP PAGE --	
DOWN MIX	
CENTER	
REAR	
SUBWOOFER	ON
CNTR DELAY	OFF
REAR DELAY	
TEST TONE	

DO YOU HAVE A SUBWOOFER?

Set the SUBWOOFER output ON/OFF.

TEST TONE

-- AUDIO SETUP PAGE --	
AUDIO OUT	
DOWN MIX	
CENTER	
REAR	
SUBWOOFER	
CNTR DELAY	
REAR DELAY	
TEST TONE	ON

TEST TONE

Test the output ability of left, center, right, right surround, and left surround speakers in sequence.

Note: Please set the "DOWN MIX" item to OFF first.

AUDIO SETUP

There are five available settings:

AUDIO OUT

You can choose to send the player's audio signals to an external receiver using the following outputs:

-- AUDIO SETUP --

<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">AUDIO OUT</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">OP MODE</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DUAL MONO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DYNAMIC</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">LPCM OUTPUT</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">ANALOG</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">SPDIF/RAW</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">SPDIF/PCM</div>
---	--

SELECT AUDIO OUTPUT

- **SPDIF/RAW:** Set to this selection will output the raw bit stream signal of Dolby® Digital or DTS from the coaxial jack. In order to enjoy Dolby® Digital DTS discs, this unit's digital output jack must be connected to the digital-input jack of a Dolby® Digital or DTS compatible receiver or processor.
- **SPDIF/PCM:** PCM stands for Pulse Code Modulation and is digital audio. Connecting this unit to an amplifier with a built-in D/A converter can play the same digital audio format as on CDs. Additionally, 2-channel analogue audio will output from the audio output jacks of amplifier.

NOTES: Analogue and digital audio signals cannot output simultaneously. This player has a conversion function for converting Dolby® Digital and MPEG audio into the LPCM format. This allows playback of CDs with the regular playback system without the need for a special converter.

OPERATIONAL MODE

-- AUDIO SETUP --

<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">AUDIO OUT</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">OP MODE</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DUAL MONO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DYNAMIC</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">LPCM OUTPUT</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">LINE OUT</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">RF REMOD</div>
---	---

OPERATIONAL MODE SETUP

- **LINE OUT** (Line output): Perform linear compact for input signals. Lower volume is relatively adaptable to uses at night.
- **RF REMOD** (RF adjustment) Greater volume is suited to uses by day.

DUAL MONO

-- AUDIO SETUP --

<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">AUDIO OUT</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">OP MODE</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DUAL MONO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DYNAMIC</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">LPCM OUTPUT</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">STEREO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">L-MONO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">R-MONO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">MIX-MONO</div>
---	---

DUAL MONO (1 + 1) SETUP

There are four available modes: STEREO, L-MONO, R-MONO, and MIX-MONO.

Audio output description

MODE	LEFT SPEAKER	RIGHT SPEAKER
STEREO	STEREO -L	STEREO -R
L-MONO	L-MONO	L-MONO
R-MONO	R-MONO	R-MONO
MIX-MONO	L-MONO+R-MONO	L-MONO+R-MONO

DYNAMIC

-- AUDIO SETUP --

<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">AUDIO OUT</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">OP MODE</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DUAL MONO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">DYNAMIC</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">LPCM OUTPUT</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">FULL</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">6/8</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">4/8</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">2/8</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">OFF</div>
---	--

MAIN PAGE

DYNAMIC RANGE COMPRESSION

„Compression Range” is the difference between the maximum level and the minimum level of sounds. Sounds on a movie originally designed for movie theaters feature a very wide compression range, so sometimes it is not suitable for home use. Depending on the condition of your listening environment, Compression function can reduce the instant sound effect alteration of the movie while playing back. When seeing movies in the night, turn this function on to avoid the suddenly loud sound to influence your neighbors. (Default value is FULL, no compression to be done.)

NOTES: This function works only during playback of Dolby Digital recorded discs. The level of Dynamic Range Reduction may differ depending on the DVD discs.

LINEAR PCM SETUP

This option sets the audio output format sent using the unit's coaxial digital audio output.

Linear PCM OUT

--AUDIO SETUP--	
AUDIO OUT	
OP MODE	
DUAL MONO	
DYNAMIC	
LPCM OUTPUT	<div>LPCM 48K</div> <div>LPCM 96K</div>
SET LPCM OUTPUT TO 48K OR 96K	

- **LPCM 48K** - In the Linear PCM setting, “48K” means “the digital audio output maximum sampling rate is 48KHz”; therefore, when the title's encoding sampling rate* is 96KHz, the output will be forced converted to 48KHz.
- **LPCM 96K** - If “96K” is selected, then the maximum output sampling rate is 96KHz and no conversion will take place.

KARAOKE

-- KARAOKE PAGE --	
KARAOKE MODE	<div>OFF</div> <div>KARAOKE</div>
<div>MAIN PAGE</div>	
SETUP KARAOKE FEATURE	

Select KARAOKE ON/OFF.

PREFERENCES

Preferences allow you to set the default TV TYPE, VIDEO OUTPUT, AUDIO, SUBTITLE, DISC MENU, PARENTAL, PASSWORD, factory DEFAULTS and SMARTNAVI of this player. This setting is only available when the DVD player is in the STOP mode by pressing the [STOP] button twice and then press the [SETUP] button to call on the “GENERAL PAGE” for selection settings.

NOTES: Pressing the [STOP] button once only pause the playback, to stop the playback completely by pressing [STOP] twice.

TV TYPE

-- PREFERENCES PAGE --	
TV TYPE	MULTI
VIDEO OUTPUT	NTSC
AUDIO	PAL
SUBTITLE	
DISC MENU	
PARENTAL	
PASSWORD	
DEFAULTS	
SMARTNAVI	
<div>MAIN PAGE</div>	
SET PREFERENCES	

- **MULTI** - The DVD player will choose the correct system to display the playback of inserted disc.
- **NTSC** - The DVD player will output in NTSC format regardless of what format the disc was designed for.
- **PAL** - The DVD player will output in PAL format regardless of what format the disc was designed for.

Note: Press [N/P] directly on the Remote Control to alter NTSC, PAL or MULTI of TV System being played.

VIDEO OUTPUT

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	VIDEO
AUDIO	S-VIDEO
SUBTITLE	SCART
DISC MENU	
PARENTAL	
PASSWORD	
DEFAULTS	
SMARTNAVI	
<div>MAIN PAGE</div>	
SET VIDEO OUTPUT	

The TV OUTPUT has three kinds of output ways; they are VIDEO, S-VIDEO and SCART. If you are using S-video output, please set this setting to “S-VIDEO”. If you are using SCART output set to “SCART”, which matches with your TV's SCART input.

DVD-004 LaScala

NOTES: SCART output and S-Video output cannot be used simultaneously.

DISC MENU

AUDIO

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	
AUDIO	ENGLISH
SUBTITLE	FRENCH
DISC MENU	SPANISH
PARENTAL	CHINESE
PASSWORD	JAPANESE
DEFAULTS	RUSSIAN
SMARTNAVI	
MAIN PAGE	
PREFERRED AUDIO LANGUAGE	

This unit supports three audio selections, as shown below, for your preferred audio setting.

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	
AUDIO	
SUBTITLE	
DISC MENU	ENGLISH
PARENTAL	FRENCH
PASSWORD	SPANISH
DEFAULTS	CHINESE
SMARTNAVI	JAPANESE
	RUSSIAN
MAIN PAGE	
PREFERRED MENU LANGUAGE	

This unit supports three DISC MENU languages.

PARENTAL

SUBTITLE

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	
AUDIO	
SUBTITLE	ENGLISH
DISC MENU	FRENCH
PARENTAL	SPANISH
PASSWORD	CHINESE
DEFAULTS	JAPANESE
SMARTNAVI	RUSSIAN
	OFF
MAIN PAGE	
PREFERRED SUBTITLE LANGUAGE	

This unit supports three subtitle selections, as shown below, for your preferred default subtitle setting. When "OFF" is selected, there will be no subtitle is displayed during playback.

-- PREFERENCES PAGE --	
TV TYPE	1 G
VIDEO OUTPUT	2
AUDIO	3 PG
SUBTITLE	4 PG 13
DISC MENU	5
PARENTAL	6 PG-R
PASSWORD	7 NC-17
DEFAULTS	8 ADULT
SMARTNAVI	NO-PARENTAL
MAIN PAGE	
SET PARENTAL CONTROL	

Functions to limit the playback of some discs that contain mature scenes. The limitation varies from disc to disc; when it is activated, playback is completely prohibited. There are eight levels of parental setting of this unit.

When you want to change the parental rating level, you will be asked to enter a password.

PASSWORD VERIFY PAGE	
INPUT PASSWORD:	<input type="text"/>
PLEASE ENTER PASSWORD	

NOTES: Use “3308” to override the forgotten password.

PASSWORD

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	
AUDIO	
SUBTITLE	
DISC MENU	
PARENTAL	
PASSWORD	CHANGE
DEFAULTS	
SMARTNAVI	
MAIN PAGE	
CHANGE PASSWORD	

The password is a 4-digit number. When you want to change the password, select “CHANGE” as shown below.

You will be asked to enter the old password, then enter the new password, and confirm it.

PASSWORD CHANGE PAGE	
OLD PASSWORD:	<input type="text"/>
NEW PASSWORD:	<input type="text"/>
CONFIRM PWD:	<input type="text"/>
PLEASE ENTER OLD PASSWORD	

NOTES: The default password number is “3308”.

DEFAULTS

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	
AUDIO	
SUBTITLE	
DISC MENU	
PARENTAL	
PASSWORD	
DEFAULTS	RESET
SMARTNAVI	
MAIN PAGE	

When you select “RESET”, all the initial settings will be restored to the default setting.

SMARTNAVI

-- PREFERENCES PAGE --	
TV TYPE	
VIDEO OUTPUT	
AUDIO	
SUBTITLE	
DISC MENU	
PARENTAL	
PASSWORD	
DEFAULTS	
SMARTNAVI	NO MENU
	WITH MENU
MAIN PAGE	

With the WITH MENU of the SMART NAVI highlighted, there will be the Menu of JPG or MP3 displayed on the screen (WITH MENU is the default setting). (See JPEG / MP3 – Files Playback.)

ON SCREEN DISPLAY (OSD)

DVD OSD Modes

There are two OSD display modes available when playing a DVD disc.

Mode 1

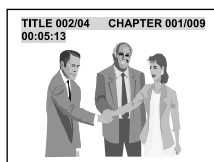
When the **[OPEN/CLOSE]** button is pressed, the OSD shows: the status of the pressed button and some special Logoes are displayed on the screen.

Mode 2

Shows the playback information of a movie or title.

- When pressing the **[DISPLAY]** button on R/C, the information OSD will display on the screen in the sequence as shown below:

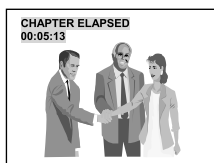
First time



Second time



Third time



Fourth time



- When pressing the **[DISPLAY]** button on the remote control again, it will turn off the OSD.

CD/VCD OSD Modes

There are two OSD display modes available when playing a VCD, and Audio CD disc.

Mode 1

Shows the status of the pressed button and some special messages are displayed on the screen as previous description.

Mode 2

Shows the playback time information of a disc.

PBC ON (VCD 2.0 above only)

- When pressing the **[DISPLAY]** button on R/C, the information OSD will display on the screen in the sequence as shown below:

1. SINGLE ELAPSED



2. SINGLE REMAIN



PBC OFF or Audio CD playback:

1. SINGLE ELAPSED



2. SINGLE REMAIN



3. TOTAL ELAPSED



4. TOTAL REMAIN



- When pressing the **[DISPLAY]** button on the remote control again, it will turn off the OSD.

BASIC OPERATION OF PLAYBACK

Preparation

- If a television set is used, turn on its power and select the appropriate input AV, S-Video VGA. If the VGA connection is used then the TV will switch to the correct input when the DVD player is turned on.
- If a sound system is used, turn on the amplifier first and make sure its outputs are set properly.

START Playback

1. Turn on the DVD player.
2. Press the **[OPEN/CLOSE]** button to open the disc tray.

- Place a disc onto the tray and make sure that it is placed squarely on the tray.
- Press the **[OPEN/CLOSE]** or **[PLAY/PAUSE]** button to play the disc.

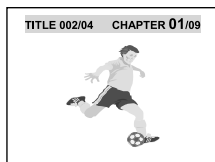
NOTES: When using a DVD disc, some menu selections and some DVD playback functions are available during playback. When using a VCD disc with PBC, the PBC menu will be displayed on the screen. You can use the PBC menu, or press the PBC button to set PBC off and the disc will play immediately. For a VCD disc without PBC or an Audio CD, the disc will be played immediately.

SKIP Playback

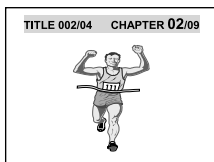
DVD Playback

- Press the **[NEXT]** button to skip to the next chapter.

Before press **[NEXT]** button

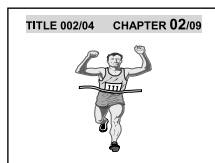


After press **[NEXT]** button

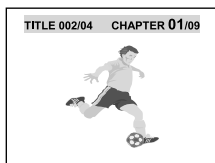


- Press the **[PREV]** button to skip to the beginning of the current chapter or previous chapter.

Before press **[PREV]** button



After press **[PREV]** button



VCD/Audio CD Playback

- PBC ON (VCD 2.0 above only): Press the **[NEXT]** or **[PREV]** button will go back to the PBC menu.

PLAYING



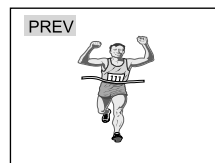
VCD PBC MENU



Song 1
Song 2
Song 3
Song 4
Song 5
Song 6

Note: There will be a case that playback stops when **[NEXT]** or **[PREV]** is pressed.

- PBC OFF or Audio CD Press the **[NEXT]** or **[PREV]** button will skip to the next or previous track of VCD or Audio CD.



Note: PBC: Play Back Control. See page 26. This function is only available for Video-CD version 2.0 or higher. The PBC operation may differ by disc, therefore, refer to the instructions for each disc.

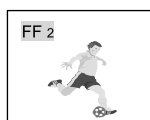
FAST FORWARD/REVERSE SCAN

Using the **[FWD]** and **[REV]** buttons to fast forward and reverse scan.

DVD Playback

- When the **[FWD]** or **[REV]** button is pressed, the speed of playback changes in cycles of 2 → 4 → 6 → 8 → Play → 2

▶▶2



Fast Forward



▶▶8



◀◀2



Fast Reverse



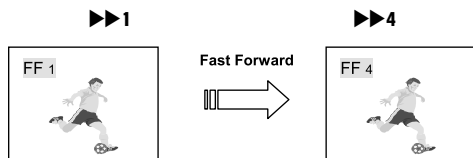
◀◀8



- When the **[PLAY/PAUSE]** button is pressed during fast forward/reverse scan, normal playback will be resumed.

VCD/Audio CD Playback

- When the **[FWD]** or **[REV]** button is pressed, the speed of playback changes in cycles of 1 → 2 → 3 → 4 → Play → 1



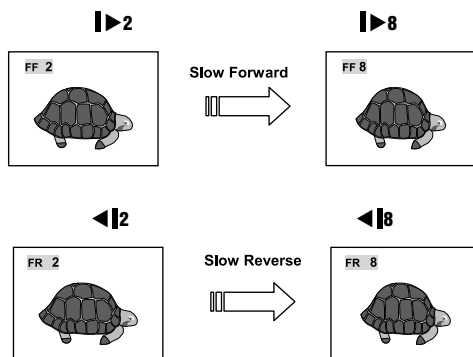
– When the **[PLAY/PAUSE]** button is pressed during fast forward/reverse scan, normal playback will be resumed.

NOTES: It is normal that video image may seem discontinuous during fast forward/reverse scan. When the fast forward scan reaches the end of a track (Audio CD/VCD) or a title (DVD), normal playback of the next track/title will be resumed. When the fast reverse scan reaches the beginning of a track (Audio CD/VCD) or a title (DVD), the normal playback of the track/title will be resumed.

SLOW-MOTION Playback

DVD Playback

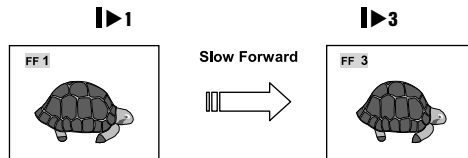
- When the **[SLOW]** button is pressed, the speed of playback changes in cycles of slow forward **▶2 ▶ ▶4 ▶ ▶8** and then slow reverse **◀2 ▶ ▶4 ▶ ▶8**.



- When the **[PLAY/PAUSE]** button is pressed during slow forward/reverse scan, normal playback will be resumed.

VCD/Audio CD Playback

- When the **[SLOW]** button is pressed, the speed of playback changes in cycles of slow forward **▶1 ▶ ▶2 ▶ ▶3 ▶ PLAY ▶ ▶1**



- When the **[PLAY/PAUSE]** button is pressed during slow forward/reverse scan, normal playback will be resumed.

NOTES: During slow-motion play, you will not be able to hear the audio portion of the track.

STOP Playback

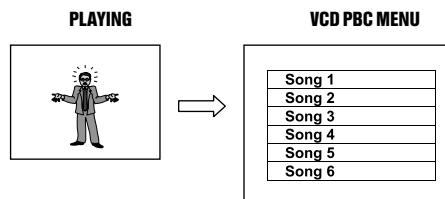
DVD Playback

Pressing the **[STOP]** button once only pre-stop the playback. You must press the **[STOP]** button twice to totally stop the playback.

NOTES: When the unit is not in use, please remove the disc and press the **[POWER]** button to turn off DVD player.

VCD/Audio CD Playback

- PBC ON (VCD 2.0 above only): When the disc playing is over, system will go back to PBC (main page) Menu.



Note: Some function keys will be differed from its original definition even cease to function in some discs. **[HAND]** The main cause is those specific discs were already contained its operation function in process of manufacturing. In this case, to operate the function key, please follow on-screen indication for operation. The particular feature only exists in those specific discs; it will not further affect DVD player's normal operation. When PBC mode is ON, even when STOP button is pressed some discs will not go back to PBC Menu and " " is shown on the screen.

- PBC OFF or Audio CD Press **[STOP]** button will stop playback during PBC off or Audio CD playback.

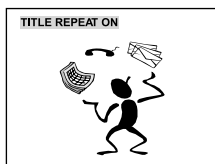
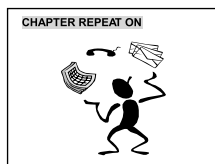
ADVANCED OPERATION OF PLAYBACK

REPEATED Playback

TITLE/CHAPTER Repeat

When the **[REPEAT]** button is pressed, the repeated playback is triggered and the OSD message is changed in cycles of "CHAPTER REPEAT ON", "TITLE REPEAT ON", and "REPEAT OFF."

- **CHAPTER REPEAT** - Enables the repeated playback of a chapter for a DVD disc or track for a Audio CD disc or a VCD disc.
- **TITLE REPEAT** - Enables the repeated playback of a title for a DVD disc or a disc for a Audio CD disc or a VCD disc.
- **REPEAT OFF** - Resumes normal play.

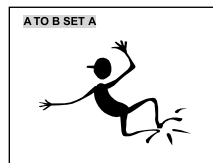


A-B Repeat

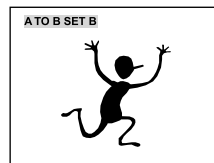
You are able to perform a repeated playback between any two points of a track or a chapter.

1. Press the **[A-B REPEAT]** button during playback to set the beginning point (A). The OSD message "A TO B SET A" will be shown on the right lower screen corner.
2. Press the **[A-B REPEAT]** button again to set the end point (B). The OSD message "A TO B SET B" will be shown. In the meantime, the repeated playback begins between the two points, A and B.
3. Pressing the **[A-B REPEAT]** button again resumes normal play. The OSD message "A TO B CANCELLED" will be shown.

SET A



SET B



PROGRAM Playback

Here the program playback function is only available for Audio CD, or a VCD with PBC off.

Track Program

1. Press the **[PROGRAM]** button to program the tracks for program playback during STOP status.
 2. Use the numbers on the remote control to begin programming. Press the corresponding track number in the same sequence as your desired playback order. For example: To program tracks 2, 4, 6 (in the same order), simply press key digits **[2]**, digit **[4]**, digit **[6]** sequentially.
- A number larger than 10 must be keyed by using **[+10]** additionally. For example, "22" is keyed in by pressing **[+10]** twice and then **[2]** once.

NOTES: The maximum program capability is 99 tracks.

Start/Cancel the Program Playback

- Press the **[PLAY/PAUSE]** to start the program playback in the order that you programmed it.
- Press the **[STOP]** button to stop playback, press **[PROGRAM]** to reset program order, press **[PROGRAM]** again to cancel the program function.
- During the program playback, the **[NEXT]** button and the **[PREV]** button can be used to advance to the next programmed track or go back to the previous programmed track.

TITLE MENU (DVD Only)

Some DVD discs have a title menu recorded within them to use for selecting titles for play. This feature will only work with these discs.

- Press the **[TITLE]** button during playback to reach the title menu. Pressing the **[TITLE]** button again resumes the playback of the scene when the **[TITLE]** button was first pressed.

DVD TITLE MENU

DISC TITLE
TITLE 1
TITLE 2
TITLE 3
TITLE 4
TITLE 5
TITLE 6

- Use the [◀] [▶] [▲] [▼] buttons to control the direction and press the [PLAY/PAUSE] button to select the preferred title or you can directly press the numeric buttons to select the title.

NOTE: DVD discs are divided into units referred to as titles, and titles are divided into chapters. Menu screens do not belong to any title. A disc that contains a movie may have only one title with many chapter divisions.

DVD MENU (DVD Only)

Some DVDs have complex contents such as multi-subtitle, multi-audio, or multi-angle. In these cases, you may use the DVD menu to select audio language, subtitle language, and angle.

1. Press the [MENU] button during playback to display the DVD menu, if it is available on the disc.
2. Use the [◀] [▶] [▲] [▼] buttons to control the direction and press the [PLAY/PAUSE] button to select the preferred item. Or you can directly press the numeric buttons to select the item.
3. Pressing the [MENU] button again resumes the playback of the scene when the [MENU] button was first pressed.

DVD MENU

DISC MENU
PLAY MOVIE
SPECIAL
CHPATERS
SUBTITLES
AUDIO
CHARACTERS

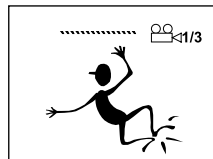
MULTI-ANGLE Playback

Some DVD discs may contain scenes with a number of different angle views. Whenever a scene with multiple angle views is played, you can use the [ANGLE] button to view this scene from different angles.

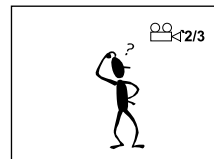
- The OSD icon [CAMERA MARK] will appear on the screen during the playback of a scene with multi-angle views.

- When the [ANGLE] button is pressed, the angle for playback will change in cycles among the available angle numbers.

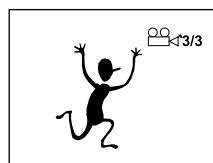
ANGLE 1/3



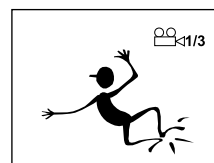
ANGLE 2/3



ANGLE 3/3



ANGLE 1/3



NOTES: The "ANGLE MARK" in the initial setting must be set to "ON."

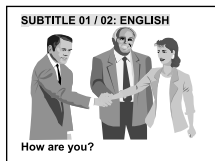
Changing SUBTITLE During Playback

During playback of a DVD disc with more than two subtitle languages, you can change the subtitle or disable the subtitle by pressing the [SUBTITLE] button.

- When the [SUBTITLE] button is pressed, the subtitle for playback will change in cycles among the available subtitle numbers and "OFF" status. "OFF" will disable the subtitle display.
- The OSD message will show the current subtitle number. If no selection is made, this OSD message will disappear after 3 seconds.

NOTES: "UNKNOWN" will be displayed for languages that are not supported by the subtitle function in this player.

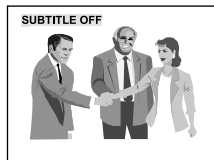
English Subtitle



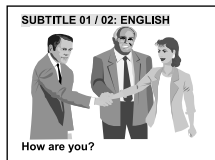
Chinese Subtitle



Subtitle Off



English Subtitle



NOTES: Sometimes the subtitle language can only be changed in DVD menu instead of during playback. The number of available subtitle language is depending on the disc.

Changing AUDIO LANGUAGE During Playback

During playback of a DVD disc with more than two audio languages, you can change the audio/language by pressing the **[LANGUAGE]** button.

- When the **[LANGUAGE]** button is pressed, the audio / language for playback will change in cycles among the available audio/language numbers.
- The OSD message will show the current subtitle number. If no selection is made, this OSD message will disappear after 3 seconds.

English Language



Chinese Language



NOTES: Sometimes the audio language can only be changed in DVD menu instead of during playback. The number of available audio language is depending on the disc.

DIRECT Function

Under the search mode, specific title, chapter, or time can be located for immediate playback.

DVD Search Functions

During a DVD playback, pressing the **[TIME]** button can enable the search function. The OSD will show three search methods after pressing **[TIME]** button one time and two times.

TITLE and CHAPTER search



TIME search



The “TITLE 01/35” indicates that the player is currently playing title no. 1 of 35 titles. The “CHAPTER 06/38” indicates that the player is currently playing chapter 6 of 38 chapters. The “TIME 00:20:12” indicates that the current playback time is 20 minutes and 12 seconds into the playback.

- To search by title, use the **[◀] [▶] [▲] [▼]** buttons to highlight the first two digits of the “TITLE nn/nn” section. Once highlighted, use the number keys on the remote to enter the title you want to play. Presses **[ENTER]** to complete your search selection.
- To search by chapter, use the **[◀] [▶] [▲] [▼]** buttons to highlight the first two digits of the “CHAPTER nn/nn” section. Once highlighted, use the number keys on the remote to enter the chapter you want to play. Presses **[ENTER]** to complete your search selection.
- To search by time, use the **[◀] [▶] [▲] [▼]** buttons to highlight the “TIME nn:nn:nn” section. Once highlighted, use the number keys on the remote to enter the time frame from which you want to play. Presses **[ENTER]** to complete your search selection.

VCD/Audio CD DIRECT Functions

During a VCD or Audio CD playback, this unit only supports the time search function.

1. Pressing the **[TIME]** button during play will display the OSD for VCD/Audio CD search.
2. When the time is set, play from this position will start immediately.

NOTES: Audio CD playback's background is start up logo.

VCD PLAYBACK CONTROL (PBC)

This function is only available for Video-CD version 2.0 or higher. The PBC operation may differ by disc, therefore, refer to the instructions for each disc.

- Press the **[MENU/PBC]** button to switch on/off the PBC function. The OSD message “PBC ON” or “PBC OFF” will be displayed.
- On the PBC menu, the **[PREV]** and **[NEXT]** buttons are dedicated for “GO BACK TO PREVIOUS PAGE” and “GO TO NEXT PAGE” of the PBC menu, if available.

VCD PBC MENU Page 1

Song 1
Song 2
Song 3
Song 4
Song 5
Song 6

VCD PBC MENU Page 2

Song 7
Song 8
Song 9
Song 10
Song 11
Song 12

Digit Buttons

On the PBC menu, all items must be selected and executed by using the number buttons only.

Volume up/down Adjustment

- Press the **[VOL SEL]** button on the remote control, TV OSD appears:
- FRONT MODE** | | | | | | | | | | | | | | | | | | | | 06
- Press **[VOL SEL]** twice, OSD appears:
- REAR MODE** | | | | | | | | | | | | | | | | | | | | 06
- Press **[VOL SEL]** thrice to five times the OSD converts in turn of CENTER MODE, SUBWOOFER MODE and MASTER MODE.

CENTER MODE | | | | | | | | | | | | | | | | | | | | 06

SUBWOOFER MODE | | | | | | | | | | | | | | | | | | | | 06

MASTER MODE | | | | | | | | | | | | | | | | | | | | 06
- Press **[VOL SEL]** continually it goes in cycle.
- Press the **[VOL+]** or **[VOL-]** button on the remote control to change the Volume value of FRONT MODE, REAR MODE, CENTER MODE, SUBWOOFER MODE and MASTER MODE separately. E.g.

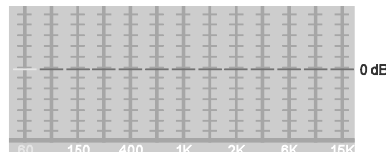
NOTES: You can adjust the Volume, either, by turning the Volume knob in the front panel of the machine. The volume will automatically step up/down when the remote button is pushed down for longer time.

EQ SETUP

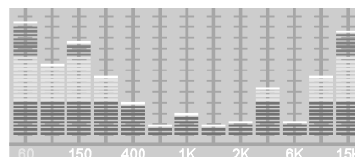
- Press **[EQ/CLEAR]** key for first time, to display the equalizer mode. Press **[ENTER]** key to select 7

kinds rear effect or set up your personal rear effect: Standard, Classic, Jazz, Rock, Pop, Ballad, Dance or personal.

- Press **[EQ/CLEAR]** key for second time to display “equalizer” picture.



- After enter the Personal mode, press directional key to set the rear effect as your wish.
- Press **[◀] [▶]** directional keys or move yellow highlight to the audio frequency you require to regulate; press **[▲] [▼]** directional keys to increase or reduce the intensity of such frequency.
- Press **[EQ/CLEAR]** key for third time, The equalizer picture will display, but press **[EQ/CLEAR]** key for fourth time, no balance effect.



How to use KARAOKE

- Load Karaoke disc and play
- Set the volume at the min.

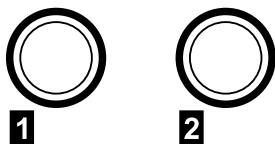
MIC VOL



Min Max

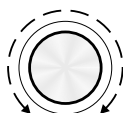
- Connect the MIC1 and MIC2 jacks respectively

MIC



- Press [**KARAOKE**] key of the remote control to open Karaoke function.
- Turn on the switch on the MIC.
- To adjust Echo to suit to sing, Turn on the [**ECHO**] key on control panel.

ECHO



Min Max

- Press number buttons and select the desired songs.
- Cancel voice and begin singing press Language button for DVD, Super VCD discs and press [**L/R**] button for VCD and CD discs. Select the proper channel until the voice cancelled.
- Karaoke off
- Set the switch at min for the MIC and take out the MICs.

Picture not Suit TV Screen

- Change “TV SCREEN” setting in DVD Setup Menu to suit your television.

SOUND

No Sound

- Check the connections.
- Check the volume on the equipment you have connected.
- Connect the audio cable securely into the appropriate jacks.
- Ensure that the input settings for the television and stereo system are correct.
- IF the player is in mute mode, please press “Mute” button again to turn on sound.

No Stereo Sound Effect when Playing Video CD or CD

- Check the connections.
- Press “Stereo” button to select stereo sound.

THE REMOTE CONTROL DOES NOT WORK PROPERLY

- Remove the obstacle existing between the DVD player and the remote control.
- The remote control is too far from the DVD video player. Operate the remote control within operating distance.
- Point the remote control at the remote sensor of the DVD video player.
- If the batteries in the remote control are exhausted, please replace batteries with new ones.

THE DVD PLAYER DOES NOT START PLAYBACK

- No disc is inserted. (“No disc” symbol appears on the screen). Please insert disc.
- The disc is placed upside down. Place the disc with the playback side down.
- The disc is dirty. Please clean the disc.

If you are in doubt about some of the following items or if the remedies indicated in the chart do not solve the problem consult your local dealer for service.

Troubleshooting

Before requesting service for this player, check the items below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

PICTURE

No Picture

- Ensure that the equipment is connected properly.
- Connect the video cable securely into the appropriate jacks.
- Select the appropriate video input mode on the TV so the picture from the DVD video player appears on the TV screen.

Picture Distorted

- The disc is dirty and needs to be cleaned.
- It is normal for some distortion to appear while Fast Motion Playback.

Specifications

Wavelength:

650nm

Signal System:

PAL/ AUTO/ NTSC

Frequency Response:

20Hz~20,000 Hz ± 2.5 dB

Signal to Noisy Ratio:

≥ 85 dB

Audio Distortion+Noise: ≤ 80 dB(1KHz)

Audio Dynamic Range:

≥ 85 dB(1KHz)

Output

Audio output (Analog audio) average output:

2V $\pm 10\%$, Load: 10K Ω

Audio output (Digital audio) average output:

0.5Vp-p $\pm 20\%$, Load: 75 Ω

Video output average output:

1Vp-p $\pm 20\%$, negative sync, Load: 75 Ω

Color difference output:

Luminance (Y) 700mv $\pm 20\%$;

Color (Cb) 535.5mv $\pm 20\%$, Color (Cr) 535.5mv $\pm 20\%$

S video output average output:

Luminance signal (Y) 1Vp-p $\pm 20\%$ (75 Ω load)

Color signal (C) 0.286Vp-p $\pm 20\%$, (75 Ω load)

Power Supply:

AC110V~260V; 50/60Hz

RMS:

5 x 10W + 25W