

Real Karaoke Player

Model : LMS-9000

Owner's Manual

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WARNING

- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To reduce the risk of fire or electric shock, and annoying interference, use the recommended accessories only.
- This device is intended for continuous operation.

CAUTION

- This appliance is a class laser product. However this player uses a visible laser beam, which could cause hazardous radiation exposure if directed. Be sure to operate the player correctly as instructed.
- When this player is plugged to the wall outlet, do not place your eyes close to the opening of the disc tray and other openings to look into the inside of this player.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- To prevent risk of electric shock, do not remove cover.
- No user serviceable parts inside.
- Dripping or splashing can damage the unit, and no objects filled with liquids, such as vases etc, shall be placed on the apparatus.

CARE AND SAFETY INSTRUCTION

Cleaning the Unit

Vacuum dusts away from ventilation slots.

Clean the panel, controls and cabinet with a soft cloth lightly moistened with mild detergent solution or water.

Do not use any abrasive materials or solvents such as benzene and alcohol.



Care of Discs

Keep the disc clean and keep the disc away from heat of direct sunlight

Do not touch the playing surface (unprinted side).

Do not use cracked, heavily scratched, or warped disc.

Always store disc in its case after playing.



Cleaning the Disc

Clean the disc with soft cloth from the center out.

Do not use solvents such as benzene or alcohol.

Power supply voltage

Check that the operating voltage (AC 100V ~ 240V 50/60Hz) indicated on the type plate is identical to the voltage of your local power supply. If not, please consult your dealer.

Power consumption

When the system is switched to Standby mode, it is still consuming power. To disconnect the system from the power supply completely, remove the AC power plug from the wall jack.

Avoid high temperatures, moisture, water and dust

Do not expose the player, batteries or discs to humidity, rain, sand or excessive heat. (caused by heating equipment or direct sunlight.)

Avoid condensation problem

The lens may cloud over when the player is suddenly moved from cold to warm surroundings, making it impossible to play a disc. Leave the player in the warm environment until the moisture evaporates.

Do not block the vents

Do not operate the DVD Player in an enclosed cabinet, allow about 10 cm (4 inches) of free space all around the player for adequate ventilation.

Do not stack anything on top of the Player

Do not stack anything on top of the player. it will makes top cover to touch the disc or DVD loader.

MAIN FEATURES

MEDIA Compatibility

This machine can play DVD movies(All Codes), MP4(DivX), VCD, CD+G, DVD±R, DVD±RW, CD-R/RW, Audio CD, WMA and MP3 CD.

Karaoke Disc compatibility

This machine, not only can play DVD, VCD and CD+G Karaoke Discs but also plays a special WMA Karaoke disc(optional), containing international languages.

Song Recording into USB memory (Function not available in this model)

You can record your singing in MIDI Karaoke mode into the USB memory via USB interface as much as USB memory capacity then also can replay your recording. (Midi Karaoke Only, Optional)

Data copy from DVD drive into USB memory

You can copy your favorite MP3 Music, Jpeg Photo and MP4 Movie files directly from CD or DVD disc into USB memory device such as MP3 Player and External Hard Disc via USB interface and by Easy Remote button. No more need PC to copy data!.

Multiplex Vocal Songs

WMA vocals can be removed and you can also sing in partner with the vocal.

As a Karaoke Machine, this machine is complete with all singing Features

- 2Mic Inputs
- Digital Echo
- Key Control(For WMA Karaoke Disc, DVD, VCD and MP3)
- Voice Cancel(For WMA Karaoke Disc, DVD, VCD and CD+G)
- Vocal Partner(For WMA Karaoke Disc, DVD and VCD)
- Music Tempo Control(For WMA Karaoke Disc, DVD and VCD)
- Lyric On/Off(For WMA Karaoke Disc)
- Scoring System(For WMA Karaoke Disc, DVD, VCD and CD+G)

Special Karaoke Features

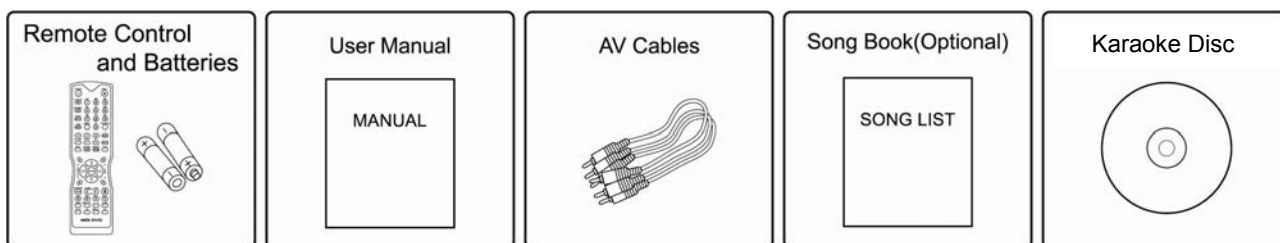
- Karaoke functions can also be operated on the front panel (In case the Remote is mislaid, lost or damaged, singing can still go on!)
- Echo Circuit Board specially designed to give you professional echo for singing enjoyment.
- 3 EASY AND CONVENIENT SONG SELECTION METHODS
- By Song Book provided.
- By Pop up songs randomly from Favorite Song Lists appearing on TV
- By TITLE song Menu on TV screen even during singing (Select by Word, by Singer, By Alphabet and by Page)
- Song programming (=reservation) up to 99songs
- 9 Favorite songs Lists for 9 Singers each holding 60songs.
- Input Greeting message to appear on TV Screen during interlude
- Scroll Color select for Lyrics and Lyrics On/Off

As a DVD Player, this machine is complete with all DVD Features

- It plays DVD(all Codes), MP4 DVD, VCD, CD+G, DVD±R, DVD±RW, CD-R/RW, Audio CD, MP3 CD and JPEG.
- Digital 5.1CH Surround sound output
- HD video resolution support up to 480P/576P/720P/1080i
- Optical/Coaxial/Analogue 5.1CH Audio output
- Component(Y Pb Pr) / S-Video/Composite video output
- NTSC/PAL
- Auto Voltage(AC 100V-240V, 50/60Hz)

INTRODUCTION

1. Accessories



< CAUTION >

The present product can be used under the **AC100~240V**.

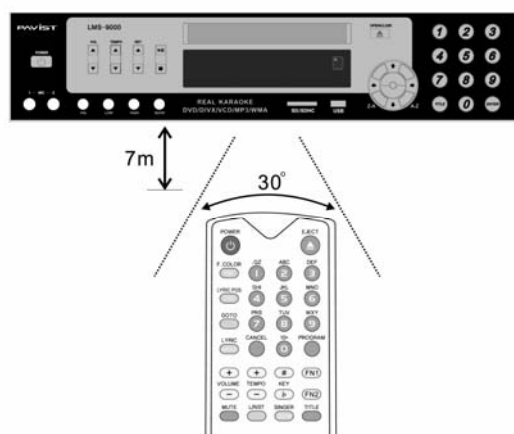
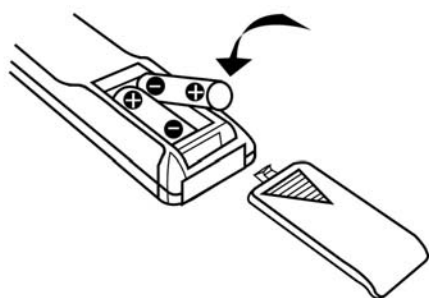
If you observe a problem in the product, do not open the cover to avoid electric shock or fire.

The use of unauthorized voltage of fuse can cause a fire.

You can deform or break the remote control by dropping or throwing it. Its direct exposure to the liquid substances or heat can also cause trouble.

The Battery is **AAA** standard.
Check if they are inserted correctly.

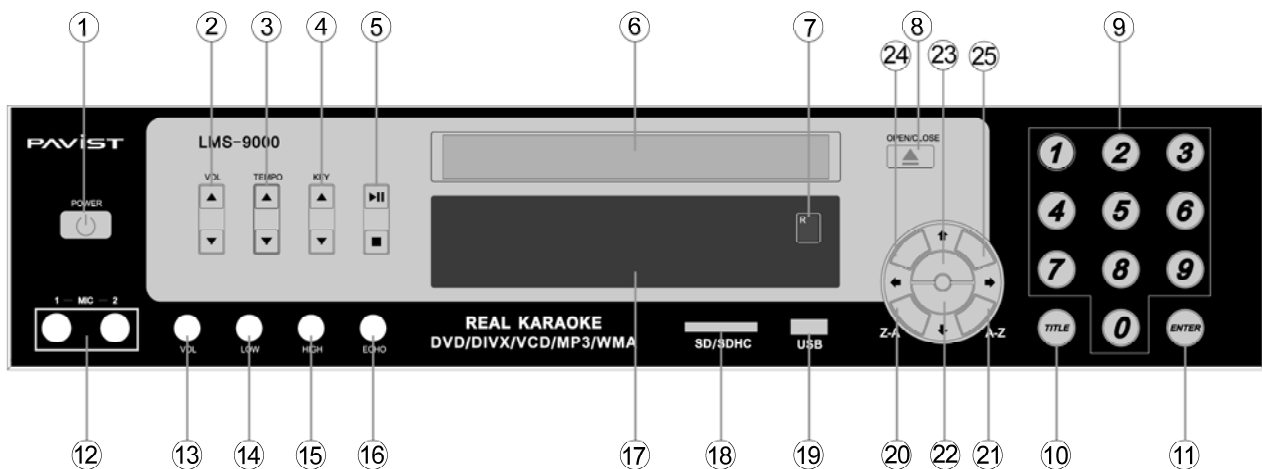
Manipulate the remote control toward the reception sensor.
The remote control works within **7m** and **30radiuses** toward each side from the reception sensor of the set.



- Remove batteries if they are exhausted or if the Remote Control is not being used for a long time.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed properly.

2. Name of Each Parts

Front Panel



- 1. POWER:** To turn ON or OFF the power of the unit.
- 2. Volume Controls:** To turn the volume of the music.
- 3. TEMPO Control:** To adjust the Tempo of the song quick or slow(Karaoke)
- 4. KEY Control:** To adjust the Key of the song up or down to suit your pitch.
- 5. Play/Pause:** To start playing or to pause the playing of the disc.
- Stop:** To stop playing the disc.
- 6. DISC Tray:** To load your disc.
- 7. Remote Sensor:** To receive the signals from the remote control of the unit.
- 8. Open/Close:** To open or close the CD Tray.
- 9. Number Keys:** To select song.
- 10. TITLE:** To go to the dictionary-like song menu on your TV screen.
- 11. ENTER:** To confirm an input selection.

- 12. Mic Inputs:** To plug in your microphones.

(Note: There will be no mic sound unless a disc is played. This is specially designed to avoid static and electrical shock to the machine, that may be caused by amplifiers with high power voltage output.)

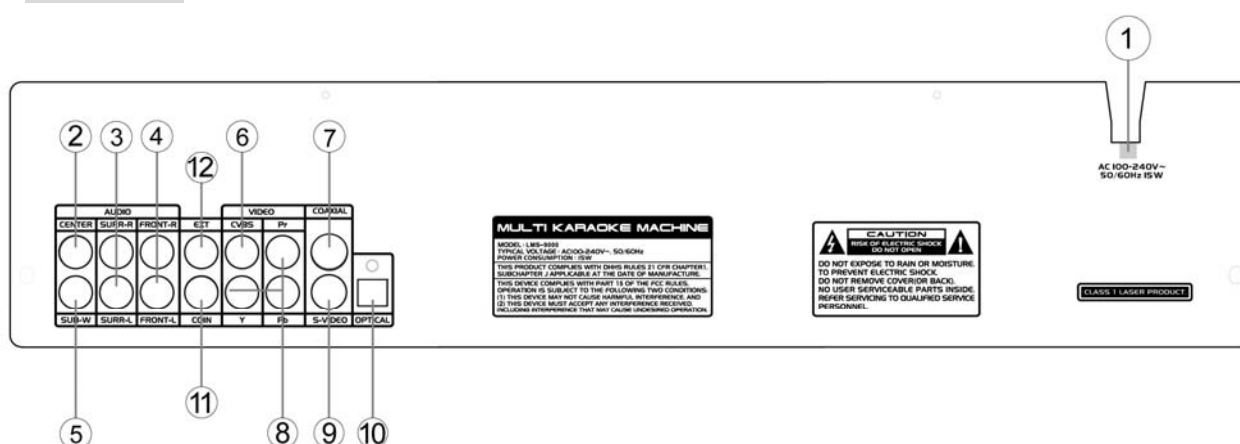
- 13. Mic Volume Controls:** To adjust the volume of the Mic Inputs.
- 14. Mic Bass Controls:** To adjust the bass sound of the Mic Inputs.
- 15. Mic Treble Controls:** To adjust the treble sound of the Mic Inputs.
- 16. Mic Echo Control:** To adjust the echo volume of the Mic Inputs.
- 17. LED Display:** To show the status of the disc playing.
- 18. SD/SDHC port:** To connect the SD/SDHC device to song record and data copy.
- 19. USB port:** To connect the USB device to song record and data copy.

- 20. ALPHABET ▲** Press **TITLE** on the Remote Control. The song menu will appear on your TV screen.
- 21. ALPHABET ▼** Use **Alphabet ▲ ▼** to quickly search a song with the title starting with A to Z.

- 22. ▼**
- 23. ▲**
- 24. ◀**
- 25. ▶**

Direction keys for your selection.

Rear Panel



1. AC Power Cord: To plug in to power outlet. (AC100V~240V)

2. Center Audio Output: To connect to 5.1 Channel Center Input of the amplifier using RCA cable.

3. Surround Audio Output: To connect to 5.1 Channel Surround Input of the amplifier using RCA cable.

4. Front Audio Output(Main): To connect to Audio Input of the amplifier or TV using RCA cable.

5. Subwoofer Output: To connect to 5.1 Channel Subwoofer Input of the amplifier using RCA cable.

6. CVBS Video Output: To connect to the Video Input of your TV using RCA cable.

7. Coaxial Digital Output: To connect to Coaxial Digital Input of the amplifier for better quality surround sound using Coaxial Cable.

8.Y,Pb,Pr Video Output: To connect to the Y,Pb,Pr Video Input of your TV using YUV cable for best picture.

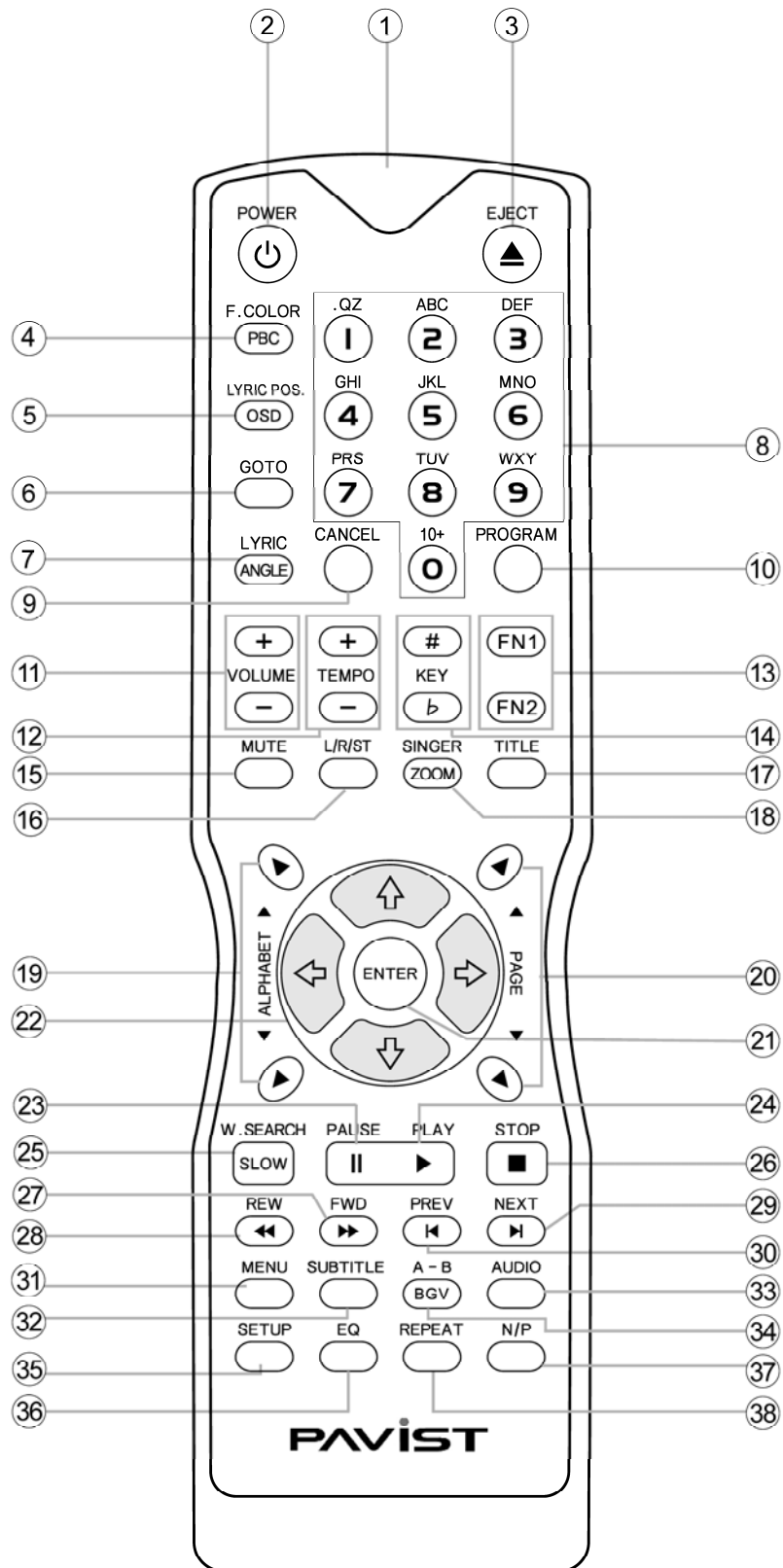
9. S-Video Output: To connect to the S-Video Input of your TV using S-Video cable for better picture.

10. Optical Digital Output: To connect to Optical Digital Input of the amplifier for best quality surround sound using Coaxial Cable.

11.Coin Signal Input: (Function not available in this model)

12. Mic Signal Input: (Function not available in this model)

3. Remote Controller

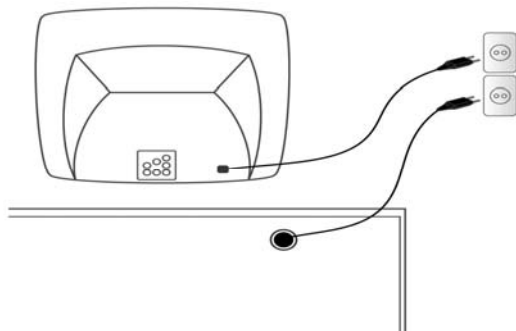


No	Button	Operation
1		Infrared Transmitter.
2	POWER	To turn ON or OFF the power.
3	OPEN/CLOSE	To open or close the disc tray.
4	PBC	(A) To turn PBC (Play Back Control) ON and OFF . (When playing a VCD Version 2.0 disc or a DVD disc, if the PBC is on, after singing a song, it will return to the menu ON the TV screen ; if the PBC if OFF, after singing a song, it will automatically go to the next song.) (B) To select the target folder in USB drive to save the copied data from DVD drive mode
	F.COLOR (Karaoke)	To change the color of the song lyric and scroll. You can select one by using, and pressing ENTER Key among 49 color combinations.
5	OSD	(A) On Screen Display showing the playing status when playing a DVD, VCD, CDG or MP3 discs. (B) To select the function of Copy, Delete, Rename, Move and New folder.
	LYRIC POS. (Karaoke)	To change lyrics position.
6	GOTO	(A) To set the start-playing time of a DVD, VCD or CD+G disc. (B) To move from DVD drive mode to the USB drive mode or vice versa
7	LYRIC(Karaoke)	To display on/off the lyrics <i>(WMA/MIDI Karaoke only)</i> .
	ANGLE	To change the camera angle of the scene. <i>(For DVD discs recorded with multi-angles only.)</i>
8	0~9	Number and Letter Keys.
9	CANCEL (Karaoke)	To cancel the input of song number.
10	PROGRAM	To program the sequence of the songs to be played. <i>(* For WMA Karaoke Disc : Press program first, then enter the song number and press ENTER. You can program the sequence of the songs to be played next while playing a song. Song number highlighted in yellow will be the song to be played next. You can use On the Remote Control to choose the song to be played next.)</i>
11	VOL +/-	To turn the volume of the music higher or lower.
12	TEMPO +/- (Karaoke)	To adjust the Tempo of the song quick or slow to suit your pitch.
13	FN1, FN2	(Not used)
14	KEY +/- (Karaoke)	To adjust the Key of the song up or down to suit your pitch.
15	MUTE	To turn on/off the sound out put temporally.
16	L/R/ST (Karaoke)	To remove the vocal when playing WMA Karaoke Vocal Songs, DVD, VCD or CD+G Karaoke disc.
17	TITLE (Karaoke)	To go to the dictionary-like song menu on your TV screen.
	(Encoding)	To select the Audio Ripping mode (ON/ ON-play/ Off) when play CD and CDG.
18	SINGER (Karaoke)	To search your song by the singer of the song. <i>(WMA Karaoke Disc only)</i>
	ZOOM	To view an enlarged picture. Press Direction Keys(◀▶▲▼) to move the picture.
19	ALPHABET ▲ ▼ (Karaoke)	Press TITLE on the Remote Control. The song menu will appear on your TV screen.
		Use Alphabet ▲ ▼ to quickly search a song with the title starting with A to Z.
20	Page ▲ ▼ (Karaoke)	Press TITLE on the Remote Control. The song menu will appear on your TV screen.
		Use Page ▲ ▼ to quickly search a song by turning pages.
21	ENTER	To confirm an input selection.
22	◀▶▲▼	Direction keys for your selection.

No	Button	Operation
23	PAUSE	To pause the playing of the disc.
24	PLAY	To start playing the disc.
25	W.SEARCH (Karaoke)	To search your song by the word of the song. <i>(WMA Karaoke Disc only)</i>
	SLOW	To play the picture at slow motion.
26	STOP	To stop playing the disc.
27	FWD	To fast forward playing the disc.
28	REW	To fast backward playing the disc.
29	NEXT	To go to the next track of the disc.
30	PREV	To go to the previous track of the disc.
31	MENU	To return to the menu of DVD disc <i>(For DVD disc only)</i> .
32	SUBTITLE	To return to the subtitle of DVD disc <i>(For DVD disc only)</i> .
33	AUDIO	To change the audio language of DVD disc <i>(For DVD disc only)</i> .
34	A-B	To set and repeat playing from one point (A) to another point (B) of the disc
	BGV (Karaoke)	Select background video.
35	SETUP	To go to the SETUP Menu.
36	EQ	To select music mode according to each style of music.(Normal, Disco, Jazz, Stadium of Classic)
37	N/P	To select TV color system, NTSC, PAL or AUTO. Currently, the unit is set at NTSC system.
38	REPEAT (Karaoke)	For WMA Karaoke Disc : Choose a song to be played first. Press Repeat to:
		REPEAT ONE : To repeat playing the same song.
		REPEAT ALL : To continue playing the disc starting from the song being played.
		REPEAT RAN : To play a song at random.
		REPEAT OFF : To cancel the repeat mode.
	REPEAT (VCD)	For VCD(PBC OFF) or CD+G Karaoke : press Repeat to:
		REPEAT ONE : To repeat the same chapter.
		REPEAT ALL : To repeat the whole disc.
		REPEAT OFF : To cancel the repeat mode.

CONNECTIONS

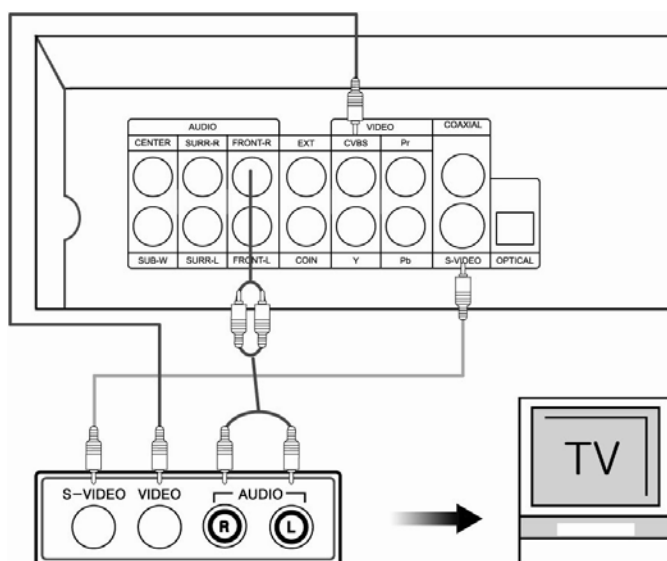
1. AC cord connection and disconnection



- After everything is connected properly, plug in the AC power cord to the power outlet.
- Never make or change any connections with the ON-OFF switched on.

- Press **POWER** Key on the DVD Player front panel, "**NO DISC**" may appear on the display panel.

2. Connecting To TV



You do this when you want to enjoy both video and sound through TV.

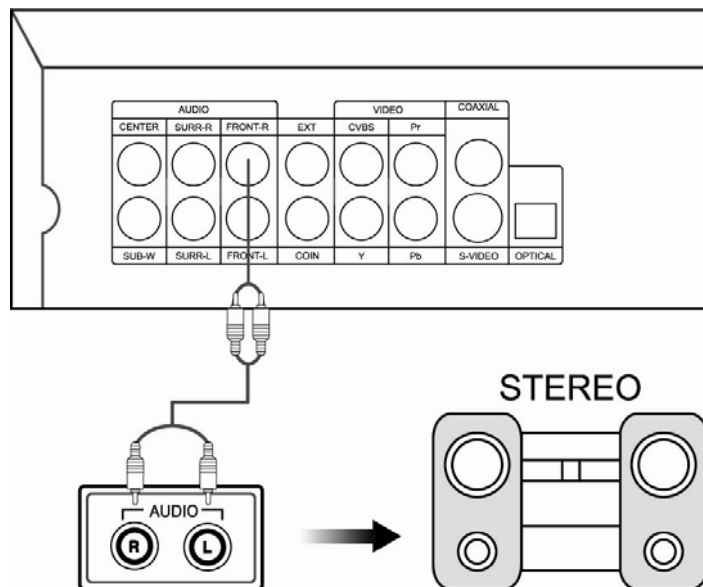
- Be sure to connect corresponding colors or signal together.
- Component video signal on TV are sometimes marked as Y, Pb, Pr.
- S-Video, Component Video connection cables are the accessories that you should purchase additionally.

< Type of Video >

- **General Video:** This is an ordinary video type mixing monochrome and color signals
- **S-Video:** This outputs monochrome(Y), and color(C) signals separately and produces a clearer image.
- **Component Video:** This outputs monochrome(Y), Blue(Pb) and Red(Pr) separately and produces the best quality image.

3. Connecting to TV / Audio

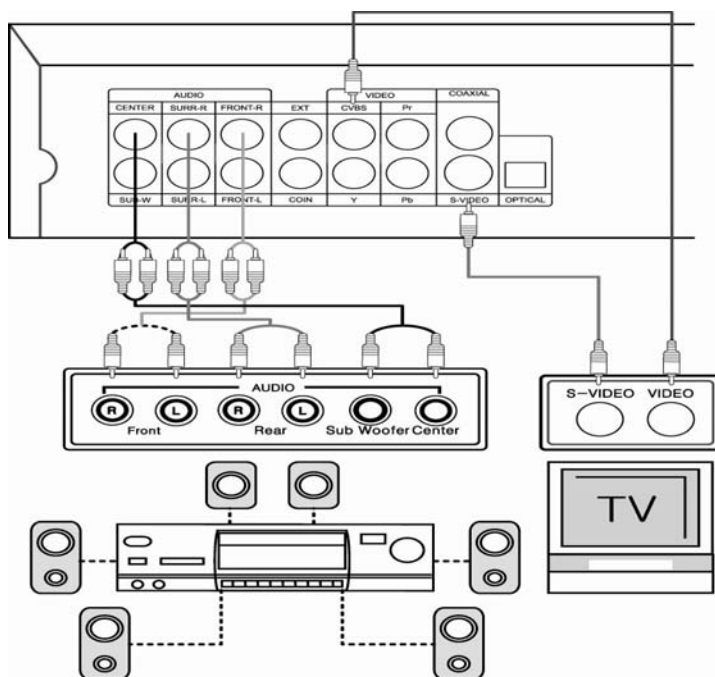
In the way, you connect the Video to TV and the sound to Audio.



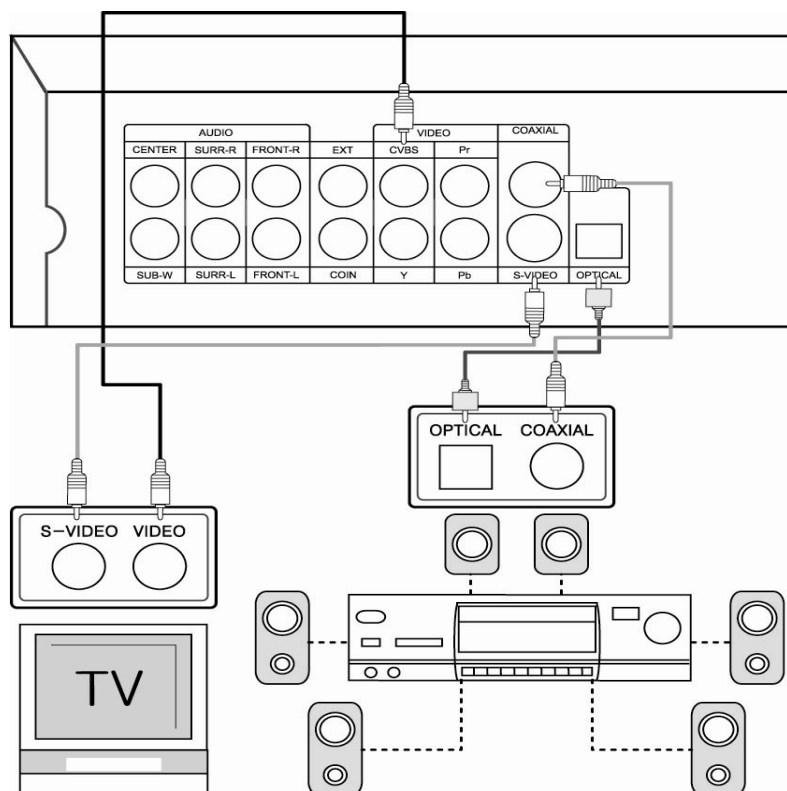
Stereo system has Dolby Pro Logic or Right / Left Audio In jack

- Use the composite video cable (yellow) to connect the DVD Player's CVBS (VIDEO) jack to the video input jack (or labeled as A/V In, Video In, Composite or Base band) on the TV *(cable not supplied)*.
- Use the audio cables (white/red) to connect **AUDIO OUT (L/R)** jacks of the DVD Player to the corresponding AUDIO IN jacks on the stereo system *(cable supplied)*.

4. Connecting to TV / Analogue Amp(5.1CH)



5. Connecting to TV / Digital Amp(5.1CH)



Connect only one of the two terminals between **OPTICAL** and **COAXIAL** for Digital Audio output

< NOTE >

- Remove the dust protection cap from the **OPTICAL** digital audio output and connect the cable firmly so that the configurations of both the cable and the connector match.
- Keep the dust protection cap and to protect against dust, always reattach the cap when not using the connector.

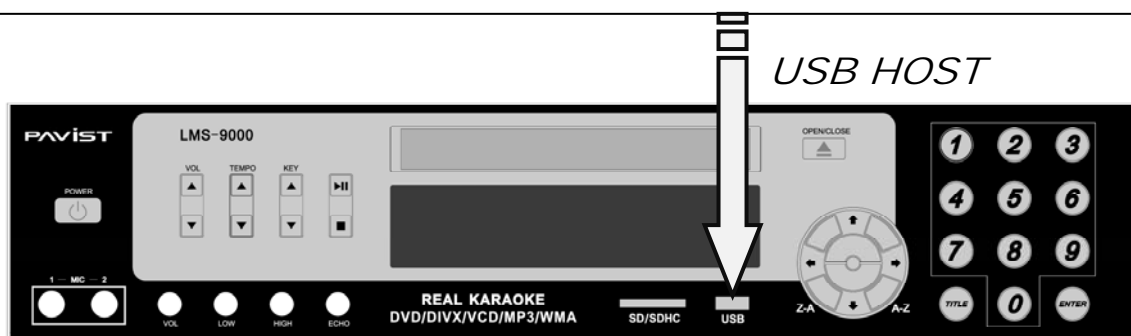
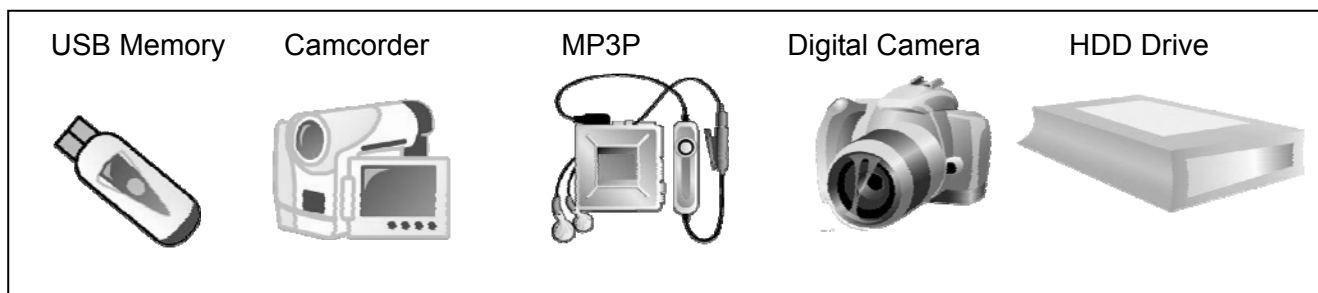
Concerning the audio output from the units **OPTICAL** audio output connector

DISC	Sound recording format	OPTICAL audio output
DVD	Dolby Digital	Dolby Digital bit stream (5.1CH) or PCM (2CH) (96kHz/24bit)
	Linear PCM (48/96 kHz 16/20/24 bit)	Linear PCM (2CH)(48kHz/16 bit only) or no output
		Bit stream or no output
VIDEO CD	MPEG 1	PCM (44.1 kHz)
CD	Linear PCM	Linear PCM (44.1kHz)

- The type of audio output from the connector can be selected by the initial setting.
- Sound having 96 kHz sampling is converted into 48 KHz sampling when it is output from the unit's digital audio output connector.

* **Dolby Digital (AC-3)** is a digital sound compression technique developed by thy Dolby Laboratories Licensing Corporation. Supporting 5.1-channel surround sound, as well as stereo or mono sound, this technique enables a large quantity of sound data to be efficiently recorded on disc.

6. Connecting with USB device



- 1) The player is compatible with following devices.
 - **USB devices** that support USB Mass Storage v 1.0.
 - **MP3 Player:** HDD and flash type MP3 Player.
 - **CBI**(Control/Bulk/Interrupt) is not supported.
 - **Digital camera:** PTP protocol is not supported. Devices which require additional program installation when you have connected it to a computer, are not supported.
 - **USB HDD and USB flash drive:** Devices that support USB2.0 or USB 1.1.
You may experience a difference in playback quality when you connect a USB1.1 device.
For a USB HDD, make sure to connect an auxiliary power cord to the USB HDD for proper operation.
 - **USB card Reader:** One slot USB card reader and Multi slot
Depending on the manufacturer, the USB card reader may not be supported
 - If you use a USB extension cable, the USB device might not be recognized.
- 2) The Player can play **MOVIES** (DivX, XviD, DAT, VOB files), **MUSIC** (MP3, ASF files) and **PHOTO** (JPEG, BMP files) **data saved in the USB device** directly via USB Host interface.
- 3) The Player can copy **MOVIE** (Small size DivX, XviD, DAT, VOB files), **MUSIC** (MP3, ASF files) and **PHOTO** (JPEG, BMP files) data from CD or DVD disc to the USB device memory directly via USB Host interface.
- 4) The Player can encode MP3 Music directly from normal Audio CD to the USB device memory via USB Host interface.

< NOTE >

1. The USB Host is **Version 1.1** and the Speed is 1.5~12MB.
2. A device using NTFS file system is not supported. (Only **FAT16/FAT32** file system is supported)
3. The USB Host function of this product does not support all USB devices.
4. The external AC Power required when connecting Digital Camera, Camcorder and HDD but USB memory and MP3 Player are no need the external AC power.

KARAOKE FUNCTIONS

1. Basic Karaoke Settings

- 1) In stop mode, press **SETUP**.
- 2) Point out the KARAOKE SETUP by ▲▼ keys and press **ENTER** key
- 3) Select desired setting by ▲▼ keys and enter the detailed setting with ► key.
- 4) Select desired setting by pressing ▲▼ keys and press **ENTER** key to apply it.
- 5) You can come out of the detailed settings page by pressing ◀ key.



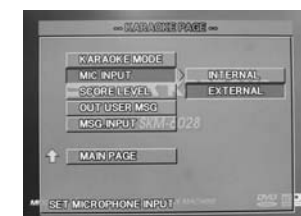
▪ KARAOKE MODE :

- 1) **KARAOKE OFF:** At this mode, You cannot enjoy the Karaoke function such as scoring, program, tempo, key control...etc. and it play DVD, VCD, MP3 and Audio CD titles only.
- 2) **KARAOKE ON:** You can enjoy all of Karaoke function such as scoring, program, tempo, key control...etc as well as DVD, VCD, MP3 and Audio CD playback.
- 3) **SCORING ON:** You can get the scoring after singing with Microphone when play the WMA Karaoke Disc, DVD Karaoke and VCD Karaoke disc.
*Score of 100: "Excellent", 90~99: "Very Good", 80~89: "Good"



▪ MIC INPUT: MICROPHONE SETTINGS

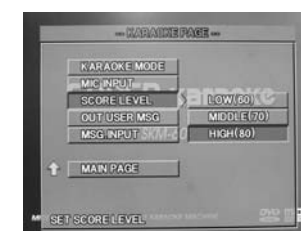
- 1) **INTERNAL:** Connect the Microphone to the MIC jack of the player directly.
- 2) **EXTERNAL:** Connect the Microphone to the MIC jack of the Amplifier first and you should connect a special cable from the MIC OUT of Amplifier to the EXT Jack of this Player in order to display the score on the screen.



▪ SCORE LEVEL:

You can adjust the default score level as follows;

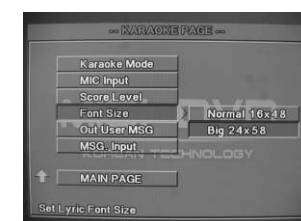
- 1) **LOW(60)**
- 2) **MIDDLE(70)**
- 3) **HIGH(80)**



▪ FONT SIZE:

You can select the Lyric size as follows;

- 1) **Normal 16*48**
- 2) **Big 24*58**



▪ OUT USER MSG.:

- 1) **OFF:** It shows a default message during interlude time.
"PAVIST"
"Have a Good Time"
- 2) **ON:** You can put any message on the screen and show during the interlude time.



▪ MSG INPUT:

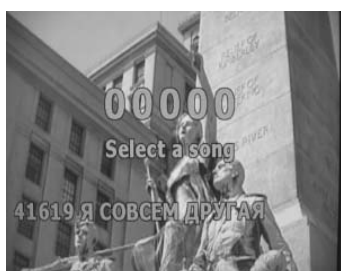
Press **CHANGE** to start writing any message what do you want on the screen. The message will be shown during the interlude time when you sing.



2. Basic Karaoke Music Play

- Open the tray by pressing **OPEN/CLOSE** button.
- Insert the Karaoke Disc with the printed side up and press **OPEN/CLOSE** button.
- Connect the microphone. You can connect two microphones.
- Insert the song number by pressing the number buttons and press **PLAY** or **ENTER** buttons.
- Rotate the MIC volume to adjust the voice volume of the microphone.
- When sing finished, the Scoring will be shown automatically if the Karaoke mode set up at "**SCORING ON**".

(Initial Screen)



(Playing Screen)



(Scoring Screen)



< NOTE >

If you hear strange noises (squealing or howling) while using the Karaoke feature, move the microphone away from the speakers. Turning down the microphone volume or the speaker volume is also effective.

3. Karaoke Controls

- **OPEN/CLOSE(EJECT)** : Press once to open the disc tray when it is closed. Press again to close the tray when it is open.
- **TITLE** : Press **TITLE** key to open screen menu in Karaoke stop or playback mode.
You can select ARABIC/ ENGLISH/ PHILIPPINES/ SPANISH/ VIETNAMESE/ CHINESE/ CANTONESE/ TAIWANESE/ JAPANESE/ RUSSIAN/ INDONESIAN/ KOREAN/ FAVORITE ... etc.
(*Above song list can be changed according to the sales regions)
- **ALPHABET** : Press to move the Alphabet of the song title.
ALPHABET ▲ key is to go up, **ALPHABET ▼** key is to go down.
- **PAGE** : Press to move the song title screen page by page. **PAGE ▲** key is to go up, **PAGE ▼** is to go down
- **UP/ DOWN/ LEFT/ RIGHT(▲▼◀▶)** :
UP/DOWN: Press to move the song title one by one on the screen menu.
LEFT/RIGHT: Press to select a language of the song on the screen menu.
Press to adjust the Master volume, Tempo and Key level.
- **ENTER(Song Reservation)** : Press to start playing the disc loaded.
Press to start the selected song.
Press to reserve the selected song on the screen menu or after inserting desired song number with number keys. You can book up to 99 songs.
- **PLAY** :
In screen Menu mode, press to start playing a song selected
In program menu mode, press to start a certain song in advance
- **PAUSE** : Press to hold audio from playing temporarily.
- **STOP** : Press to discontinue and stop.

- **VOLUME(+/-) :**

Press **+** to raise the sound volume.
Press **-** to lower the sound volume.

- **TEMPO(+/-) :**

Press **+** for a faster tempo during playback.
Press **-** for a slower tempo during playback.

- **Key (#/b) :**

Press **b** to lower the key of the song .
Press **#** to raise the key of the song.
The key changes up to 10 steps each (for "**b**" and "**#**").

- **PROGRAM :**

Press **PROGRAM** repeatedly to show and close the reserved song list in stop or play mode.



- **CANCEL :**

You can remove the songs from the booking list in reverse chronological order by pressing **CANCEL** key.
You can remove the word when you were wrong in the word search mode.

- **L/R/ST :**

In WMA song (Vocal song) playback mode, press **L/R/ST** to change the vocal output **Vocal On/Off/Auto**.

-**Vocal On** : you can listen the singer's voice even while your singing.

-**Vocal Off** : you can not listen the singer's voice and can listen your voice and music only.

-**Auto** : you can cancel to singer's voice with your voice input automatically.

***General VCD, DVD Karaoke disc only :** Press to select a Vocal output channel-Left, Right, and Stereo.

- **F. COLOR (Font color change) :**

In playback mode, press **F.COLOR** button to change the Song's Lyric Color on the TV screen.



- **LYRIC Position(OSD button) :** Press **LYRIC POS.** to change WMA Karaoke Lyric Position.

Left-Right alignment, Left-justified, Middle alignment, Right alignment, or Right-Left justified.

LyricLR, LyricC, Lyric L, LyricR , LyricRL signal on the top right corner.

- **LYRIC** : Press **LYRIC** button during Karaoke playback to ON/OFF the song's lyric on the TV screen.



- **SINGER (Singer Search) :**

Press **SINGER** button repeatedly in TITLE screen to show or not show singer name list on the TV screen to search a song by singer name.
 (* It does not work on the JAPANESE, RUSSIAN and FAVORITE song list)



- **W. Search(Word Search) :**

Press **W.SEARCH** button repeatedly in TITLE screen to search the song by word.

You can write the word with numeric key from alphabet "**A to Z**".

1: .QZ	2: ABC	3: DEF
4: GHI	5: JKL	6: MNO
7: PRS	8: TUV	9: WXY

(* It does not work on the ARABIC, CHINESE, KOREAN, JAPANESE, RUSSIAN and FAVORITE song list)



- **EQ** : Press **EQ** button repeatedly during Karaoke playback to change style such as Normal, Disco, Jazz, Classic and Stadium.

- **REPEAT** : Press **REPEAT** to change the repeat mode of reserved song by **ALL**, **ONE**, **RANDOM** and **OFF**.

REPEAT ALL :

- When some songs are reserved, select **ALL** during Karaoke playback to repeat all reserved songs continuously until Playing is stopped.
- When there is no song reserved, select **ALL** and press **NEXT** button, it plays from song number 1 to the end song number continuously until you stop playing.
- When want to repeat from a certain song, play a certain song number what you want to play first and select **ALL**, it will plays from the selected song number to the end song number continuously until stop.

REPEAT ONE : Select **ONE** when want to play only one song.

REPEAT RANDOM : Select **RANDOM** to play randomly from the reserved song list or all song list in the Karaoke disc.

- **ECHO VOL** : It controls the amount of echo level of voices through the microphone.

- **MIC VOL** : Volume of microphone is controlled by using this knob on the player.

<NOTE!>

If you hear strange noises (squealing or howling) while using the Karaoke feature, move the microphone away from the speakers. Turning down the microphone volume or the speaker volume is also effective.

- **NEXT/ PREV (General VCD, DVD karaoke disc only)**

NEXT : Press to skip to the next track or to the next reserved song..

PREV : Press to skip back to the previous track or to the first reserved song.

4. Song Search

With screen menu

- 1) Press **TITLE** key to open the screen menu in stop or playback mode.
- 2) Select a Language of the desired song by pressing ►◀ keys.
- 3) Select an Alphabet or the First Character of the desired song by pressing **ALPHABET** ▲▼ keys.
- 4) Chose a desired song in the screen menu by pressing **PAGE** ▲▼ keys or general ▲▼ keys.
- 5) If you have chosen a desired song, start or book the song by pressing **PLAY** or **ENTER** keys.
- 6) If want to book the other songs, please repeat from ②~⑤ step.
- 7) To exit the screen menu, press **TITLE** key again.



With singer search

- 1) Press **TITLE** key to open the screen menu in stop or playback mode.
- 2) Select a Language of the desired song by pressing ►◀ keys.
- 3) Press **SINGER** to change the screen menu by singer name list,
- 4) Select an Alphabet or the First Character of the desired singer by pressing **ALPHABET** ▲▼ keys.
- 5) Chose a desired singer in the screen menu by pressing **PAGE** ▲▼ keys or general ▲▼ keys.
- 6) If you have chosen a desired song of certain singer, start or book the song by pressing **PLAY** or **ENTER** keys.
- 7) If want to book the other songs, please repeat from ②~⑥ step.
- 8) To return to song list screen menu, press **SINGER** again.
- 9) To exit the screen menu, press **TITLE** key again.



(* It does not work on the JAPANESE, RUSSIAN and FAVORITE song list)

With word search

- 1) Press **TITLE** key to open the screen menu in stop or playback mode.
- 2) Select a Language of the desired song by pressing ►◀ keys.
- 3) Press **W.SEARCH** to write a song or singer name, if you write the word with numeric keys on the screen, the ICON will move to similar or same song or singer name list.
- 4) Select a desired song in the screen menu by pressing **PAGE** ▲▼ keys or general ▲▼ keys.
- 5) If you find a desired song, start or book the song by pressing **PLAY** or **ENTER** keys.
- 6) If want to book the other songs, please repeat from ②~⑤ step.
- 7) To exit word search mode, press **W.SEARCH** again.
- 8) To exit the screen menu, press **TITLE** key again.



(* It does not work on the ARABIC, CHINESE, KOREAN, JAPANESE, RUSSIAN and FAVORITE song list)

5. Making Favorite Song List

It has total 9 favorite song categories. You can reserve **60 songs in each category** and can reserve up to **total 540 songs** in all favorite song lists.

- 1) Press **TITLE** key to open the screen menu in stop or playback mode.
- 2) Select a Language of the desired song by pressing **►◄** keys.
- 3) Select an Alphabet or the First Character of the desired song by pressing **ALPHABET ▲▼** keys.
- 4) Choose a desired song in the screen menu by pressing **PAGE ▲▼** keys or general **▲▼** keys.
- 5) If you chosen a desired song, press numeric key between **1** and **9**.

Ex) If you press **1**, you can reserve the song that you selected on the favorite song list 1.
If you press **2**, it will be reserved on the favorite song list 2.



- 6) If want to book the other songs, please repeat from ②~⑥step.
- 7) If want to delete a certain song from the favorite song list, Press **0** button on the remote control to delete the song after selecting.
- 8) To exit the screen menu, press **TITLE** key again.

6. Booking songs

You are able to reserve the song up to 99 songs at one time.

With screen menu :

- 1) Press **TITLE** key to open the screen menu in stop or playback mode.
- 2) Select a Language of the desired song by pressing **►◄** keys.
- 3) Select an Alphabet or the First Character of the desired song by pressing **Alphabet ▲▼** keys.
- 4) Choose a desired song in the screen menu by pressing **Page ▲▼** keys or general **▲▼** keys.
- 5) If you have chosen a desired song, book the song by pressing **ENTER** keys.
- 6) If want to book the other songs, please repeat from ②~⑤ step.
- 7) To exit the screen menu, press **TITLE** key again.
- 8) To cancel reserved song, press **CANCEL** key.



With Program menu :

- 1) Press **PROGRAM** key to open the program menu in stop or playback mode.
- 2) Press a desired Song No. by number keys and press **ENTER** key to book the song number.
- 3) To cancel a certain reserved song, choose the desired song No by pressing **►◄** key on the program menu mode and press **CANCEL** key.



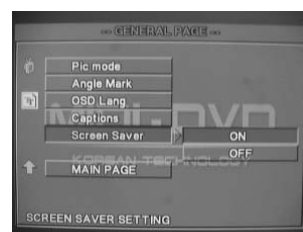
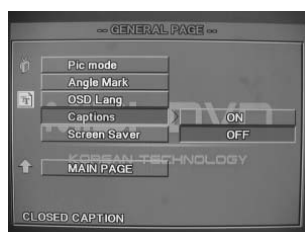
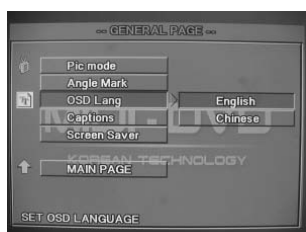
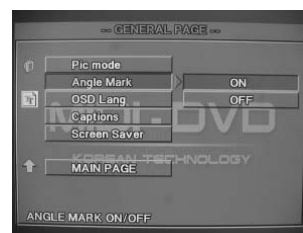
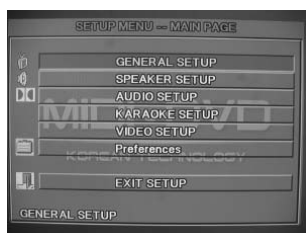
Advance Booking :

- 1) Please move to a desired order by pressing **►◄** key on the program menu mode.
- 2) Press the desired song No by pressing a desired song No. by number keys and press **ENTER** button to book in advance at certain order of reserved songs.
- 3) To exit the program menu mode, press **PROGRAM** key again.

DVD FUNCTIONS

1. General Setup

- 1) Press **SETUP** key in stopped or playback state.
- 2) Point out the **SETUP** by **▲▼** keys and press **ENTER** key
- 3) Select desired setting by **▲▼** keys and enter the detailed setting with **►** key.
- 4) Select desired setting by pressing **▲▼** keys and press **ENTER** key to apply it.
- 5) You can come out of the detailed settings page by pressing **◀** key.



▪ **PIC MODE** : IMAGE DETAILS SETTINGS

- 1) **AUTO** : Sets the screen resolution automatically.
- 2) **FILM** : Setting for a film or a progressive
- 3) **VIDEO** : Sets to the high Resolution Mode
- 4) **SMART** : Sets to the high Resolution Mode that supports the Progressive.
- 5) **SUPER SMART** : Sets to the High Resolution Mode that supports the Progressive.

▪ **ANGLE MARK** : CAMERA MARK

If you have some TITLES filmed from different angles, you will see a camera icon on the screen by pressing ON button. This icon means that you can see different pieces of TITLES.

▪ **OSD LANG** : SCREEN INDICATION LANGUAGE SETTING

You can select a language of the screen.

▪ **CAPTIONS** : BACK GROUND OF SUBTITLE

You can see the back ground of subtitle during playback of DVD titles.

▪ **SCR SAVER** : SCREEN SAVER

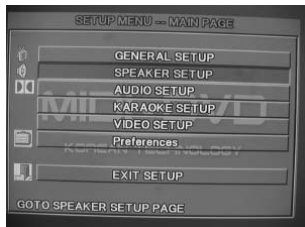
After certain duration of STOP/PAUSE state, screen protector states to work.

▪ **MAIN PAGE** : RETURN TO MAIN SETUP PAGE

You can return to the Main MENU on the SETUP page.

2. Speaker Setup

- 1) Press **SETUP** key in stopped or playback state.
- 2) Point out the **SETUP** by **▲▼** keys and press **ENTER** key.
- 3) Select desired setting by **▲▼** keys and enter the detailed setting with **►** key.
- 4) Select desired setting by pressing **▲▼** keys and press **ENTER** key to apply it.
- 5) You can come out of the detailed settings page by pressing **◀** key.



▪ **DOWNMIX : AUDIO CHANNEL COMPOSITION**

This allows you to have a proper Audio output when the Audio channel composition recorded in the Disc is different from the one that should be output.

- 1) **LT/RT** : When connected to Dolby Pro Logic Decoder Amp.
- 2) **STEREO** : When connected to STEREO Amp.
- 3) **OFF** : Down mix off.

▪ **CENTER : CENTRAL SPEAKER SETTING**

You can set the central speaker for use by pressing ON button.

▪ **REAR : REAR SPEAKER SETTING**

You can set the rear speaker for use by pressing ON button.

▪ **SUB WOOFER : SUB WOOFER SPEAKER SETTING**

You can set the sub woofer speaker for use by pressing ON button.

▪ **CENTER DELAY : CENTRAL SPEAKER DELAY SETTING**

You can select central speaker's delay duration up to 0~5MS.

▪ **REAR DELAY : REAR SPEAKER DELAY SETTING**

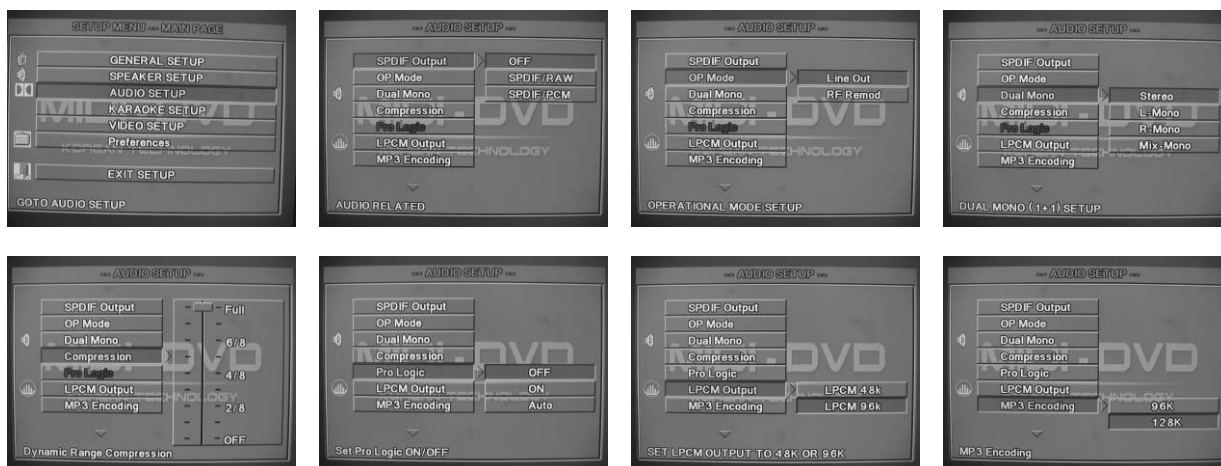
You can select rear speaker's delay duration up to 0~15MS.

▪ **TEST TONE : SPEAKER TEST**

You can test speaker's sound output by pressing **ON** button in the following order:
Front(L)-Center-Front(R)-Rear(R)-Rear(L).

3. Audio Setup

- 1) Press **SETUP** key in stopped or playback state.
- 2) Point out the **SETUP** by **▲▼** keys and press **ENTER** key.
- 3) Select desired setting by **▲▼** keys and enter the detailed setting with **►** key.
- 4) Select desired setting by pressing **▲▼** keys and press **ENTER** key to apply it.
- 5) You can come out of the detailed settings page by pressing **◀** key.



▪ **SPDIF OUT** : AUDIO OUTPUT SETTING

- 1) **OFF**: Analog audio output through the jacks on back panel (FL, FR, RL, RR, Center, Sub-Woofer).
If want Karaoke is precedence, you must select analog audio.
- 2) **SPDIF/RAW** : Through the Coaxial/Optical jack to output Dolby 5.1CH digital or DTS digital audio.
- 3) **SPDIF/PCM** : Through the Coaxial/Optical jack to output PCM digital audio.

▪ **OP MODE** :

- 1) **LINE OUT**: Line out mode, with digital dialog normalization. **DEFAULT**
- 2) **RF REMOD**: RF re-modulation mode, with heavy compression and digital dialog normalization.

▪ **DUAL MONO**

This is SIMILAR TO THE Multiplex television and can work only for the Disc designed for DUAL MONO program.

- 1) **STEREO** : Output proper channels through both right and left speakers.
- 2) **R-MONO** : Output the channel of the right side through both right and left speakers.
- 3) **L-MONO** : Output the channel of the left side through both right and left speakers.
- 4) **MIX-MONO** : Outputs through both right and left speakers by mixing up two channels.

▪ **COMPRESSION** : SOUND OUPUT REINFORCEMENT

This is a function to adjust the sound dynamic range.

▪ **PRO LOGIC** : There are three modes of **OFF/ON/Auto**.

▪ **LPCM OUPUT** :

If you connect the DVD Player to a PCM compatible receiver via the digital terminals, such as coaxial or optical etc, you may need to adjust 'LPCM Output'.

Discs are recorded at a certain sampling rate. The higher sampling rate, the better sound quality.

- 1) **LPCM 48K** : Playback a disc recorded at the sampling rate of 48kHz.
- 2) **LPCM 96K** : Playback a disc recorded at the sampling rate of 96kHz.

▪ **MP3 ENCODING** :

When you encode the Audio file from Audio CD or record singing sound to USB memory, you may need to adjust MP3 sampling late. The higher sampling rate, the better sound quality.

- 1) **96K** : Audio file will be encoded at the sampling rate of 96K.
- 2) **128K** : Audio file will be encoded at the sampling rate of 128K.

4. Video Setup

- 1) Press **SETUP** key in stopped or playback state.
- 2) Point out the **SETUP** by **▲▼** keys and press **ENTER** key.
- 3) Select desired setting by **▲▼** keys and enter the detailed setting with **►** key.
- 4) Select desired setting by pressing **▲▼** keys and press **ENTER** key to apply it.
- 5) You can come out of the detailed settings page by pressing **◀** key.



▪ TV DISPLAY:

NORMAL PS(4:3 PAN SCAN) : If you have a normal TV and want both sides of the picture to be trimmed or formatted to fit your TV screen, press **ENTER**.

NORMAL LB(4:3 LETTER BOX) : If you have a normal TV, In this case, a wide picture with black bands on the upper and lower portions of the TV Screen will be displayed.

WIDE HDTV(16:9) : If you have a wide-screen TV.

▪ TV TYPE: TV MODE SETTING

Multi System : Select this if the connected TV is compatible with both NTSC and PAL (multi-system). The output format will be in accordance with the video signal of the disc.

PAL : Select this if the connected TV is PAL system. It will change the video signal of a NTSC disc and output in PAL format.

NTSC : Select this if the connected TV is NTSC system. It will change the video signal of a PAL disc (VCD only) and output in NTSC format.

▪ RESOLUTION: VIDEO RESOLUTION SETTING

480i: Select this to get normal Video quality of 480i(Interlaced) via Composite Cable

480P: Select this to get the Progressive Scan Video Quality of 480P via Component Cable (Y,Pb,Pr).

720P: Select this to connect with HDTV and to get the HD Video Quality of 720P via Component Cable (Y,Pb,Pr).

1080i: Select this to connect with HDTV and to get the HD Video Quality of 1080i via Component Cable (Y,Pb,Pr).

5. Preference Setup

- 1) Press **SETUP** key in stopped or playback state.
- 2) Point out the **SETUP** by **▲▼** keys and press **ENTER** key.
- 3) Select desired setting by **▲▼** keys and enter the detailed setting with **►** key.
- 4) Select desired setting by pressing **▲▼** keys and press **ENTER** key to apply it.
- 5) You can come out of the detailed settings page by pressing **◀** key.



▪ **AUDIO** : AUDIO LANGUAGE SETTING

You can play the Disc in the language of your choice. (ENGLISH/ FRENCH/ SPANISH/ CHINESE/ JAPANESE)

▪ **SUBTITLE** : SUBTITLE LANGUAGE SELECTION

You can set the subtitle in the language of your choice. (ENGLISH/ FRENCH/ SPANISH/ CHINESE/ JAPANESE/ OFF)

- **DISC MENU** : You can see the DISC MENU in the language of your choice. (ENGLISH/ FRENCH/ SPANISH/ CHINESE/ JAPANESE)

- **LOCALE** : You can select your right region to play DVD disk has region code. (CHINA/ FRANCE/ HONG KONG/ JAPAN/ TAIWAN/ GBR/ USA)

- **PARENTAL** : Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level. The rating levels are from 1 to 8 and are country dependent. You can prohibit the playing of certain discs that are not suitable for your children or have certain discs played with alternative scenes.

- 1) **1G** : It will play all discs.
- 2) **2 G** : General Audience; recommended as acceptable for viewers of all ages.
- 3) **3 PG** : Parental Guidance suggested.
- 4) **4 PG13** : Material is unsuitable for children under age 13.
- 5) **5-6 PG-R** : Parental Guidance - Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervised by a parent or adult guardian.
- 6) **7 NC-17** : No children under age 17; not recommended viewing for children under age 17.
- 7) **8 ADULT** : Mature material; should be viewed only by adults due to graphic sexual material, violence or language.

- **PASSWORD** : You can set a password.
The default password is "0000".



- **DEFAULTS** : Setting the Default function will reset all options and your personal settings to the factory defaults and all your personal settings will be erased.
- **SMART NAV** : You can set this option as NO Menu or With Menu.

6. Basic Playback Controls

- **Pausing playback (MPEG4/ DVD/ VCD/ CD/ MP3/ JPEG)**
 - 1) During playback, press **PAUSE** then Playback will pause and sound will be muted.
 - 2) Press **PAUSE** again to select the previous or next picture frame.
 - 3) To return to normal playback, press **PLAY** or **PAUSE** buttons.
- **Stop (MPEG4/ DVD/ VCD/ CD/ MP3/ JPEG)**
 - 1) Press **STOP** button.
 - 2) When the set stops to play the Disc, DVD play recorded s the stopped point of the disc.
 - 3) You can play from the point by pressing **ENTER** button.
 - 4) In case of VCD2.O, the Disc is played under **PBC OFF** state.
- **Selecting track/chapter (DVD/ VCD/ CD)**
Press **NEXT** or **PREV** button to move next or previous track or chapter.
- **Mute** : Press **MUTE** repeatedly to disable and enable the sound output.
- **OSD** : Press **OSD** repeatedly to show the playback time on the TV screen such as **Single Elapsed, Single Remain, Total Elapsed, Total Remain, OFF**.
- **Resuming playback from the last stopped point (DVD/ VCD)**
 - 1) Press **STOP** to stop the DVD or VCD playback.
 - 2) Press **PLAY** and the disc will be played back from the last point.

To cancel resume mode

 - 3) In stop mode, press **STOP** again.
 - 4) Helpful Hint: Resume option may not be available on some discs.
- **Zoom (MPEG4/ DVD/ VCD/ JPEG)**
 - 1) Zooming allows you to enlarge the video image during the playback or pause.
 - 2) **DVD/VCD** : You can aggrandize the image as follows by pressing the button "**1.5X ▶ 2X ▶ 3X ▶ Normal**".
 - 3) **JPEG** : You can select "**Zoom On/Off**" and you can aggrandize the image by pressing **REW / FWD** button as follows; **25% ▶ 50% ▶ 100% ▶ 150% ▶ 200%** In ZOOM ON mode, if press **MENU**, you can see digest screen(3*3=9).
- **Repeat (DVD/ VCD/ CD/ MP3)**
You can play a chapter, track, title or entire disc repeatedly.
Press **REPEAT** continuously to choose a Repeat mode during playback.
 - 1) **DVD** : 'CHAPTER REPEAT ON /TITLE REPEAT ON / REPEAT OFF' appears on the TV.
 - 2) **VCD, CD** : You can activate repeat only after you set PBC OFF by pressing the PBC button.
'REP-ONE / REP-ALL / OFF' appears on the TV.
 - 3) **MP3** : 'FOLDER/ REP-ONE/ FOLDER REP/ DISC/ DISC-REP/ DISC SCAN/ SINGLE' appears on the TV.

▪ **Repeat A-B (DVD/ VCD/ CD)**

You can play a specific portion of a Title or Track repeatedly.

- 1) During playback, press **A-B** as your chosen starting point → "**A to B set A**" appears on the TV screen.
- 2) When the disc reaches your selected ending point, press **A-B** again. → "**A to B SET B**" appears briefly on the TV Screen, and the repeat sequence begins.
- 3) To resume regular playback, press **A-B** again. → "**A to B cancelled**" appears on the TV screen.

▪ **Time Search (DVD/ VCD)**

The Time Search function allows you to start playback at any chosen time on the disc.

- 1) Press **GOTO** repeatedly until time search edit box appears.
- 2) Press **►◄** to highlight time search box.
- 3) The on-screen display shows the total playing time of the title/chapter.
- 4) Enter hours, minutes and seconds from left to right in the time edit box using remote control numerical key pad. (e.g. **0:34:27**)

DVD :

Title/Chapter Remain : displays the remaining time of the current title/ chapter.

Title/Chapter Elapsed : displays the elapsed time of the current title/chapter.

VCD :

Title/Single Remain : displays the remaining time of the current title/single track.

Title/Single Elapsed : displays the elapsed time of the current title/single track.

▪ **Fast Search (MPEG4/ DVD/ VCD/ CD/ MP3)**

At each time you press the button, you can modify the speed as follows;

REW(Fast Rewind) : 2X, 4X, 8X, 16X, 32X, Normal Play.

FWD(Fast Forward): 2X, 4X, 8X, 16X, 32X, Normal Play.

(MP3:Max 8X, VCD:Max16X, DVD:Max32X)

▪ **Chapter/ Track Skip (MPEG4/ DVD/ VCD/ CD/ MP3)**

Press either **NEXT** or **PREV** button.

At each time you press the button, you can play the song skipping songs forward or reverse.

If you press the button while the VCD2.0 Play Setting MENU of VCD 2.0 is displayed, you may have the MENU on the screen.

▪ **SLOW**

Press **SLOW** repeatedly to go or go back slowly. (2X, 4X, 8X, Normal Play)

▪ **Equalizer adjustment(MPEG4/ DVD/ VCD/ CD/ MP3)**

You can enjoy diverse genres of music with the Equalizer.

- 1) Start Equalizer function by pressing the **EQ** button.
- 2) Select a desired genre by pressing the **PLAY** button. Equalizer sign will appear.
- 3) You can cancel the equalizer function by pressing the **EQ** button consecutively.
- 4) Genre modes contain STANDARD/ CLASSIC/ JAZZ/ ROCK/ POPS/ BALLAD/ DANCE/ PERSONAL/ OFF.
- 5) If you selected PERSONAL mode, you can adjust the elements by pressing **►◄▲▼** buttons.

▪ **L/ R/ ST**

Press **L/R/ST** key to select the available audio channels provided by the disc (STEREO, MONO LEFT, MONO RIGHT).

▪ **N/P** : You can change the TV type from NTSC, PAL and MULTI mode.

▪ Program playback (VCD/CD/MP3)

1) Activate the Program Playback function.

VCD, CD : Cancel **PBC** action by pressing the **PBC** button and press **PROGRAM** button.

CD.MP3 : Press the **PROGRAM** button during the **STOP** mode.

In Case of the Program MP3, Program will be played only in one folder.



2) Insert the desired numbers of chapter or track one by one.

You should press **PLAY** or **ENTER** button between chapter / tracks inserted and at the end.

ex) If you insert No. 3, 13, 1, 10, 11 in order, you should press "**3→13→1→10→11→ENTER**"

3) Start playing the Disc.

VCD, CD : You can start playing the Disc by pressing the **PLAY** or **ENTER** button.

MP3 : After you finalize the number insertion by pressing **STOP** button, you press either **PLAY** or **ENTER** button to start playing the Disc.

4) Release the Program Playback.

Terminate the program playback by pressing **STOP** button and then the **PROGRAM** button twice.

You can also terminate the function by switching the set off and on, or by opening and closing the tray.

7. Special DVD Controls

▪ Playing a Title (MPEG4/ DVD)

Press the **MENU** button appears on the TV Screen.

Press **▶◀▲▼** buttons or **numeric keypad (0~9)** to select a play option.

Press **ENTER** button to confirm

▪ Angle (DVD)

Press **ANGLE** repeatedly to select different desired angle.

▪ Subtitle (DVD)

Press **SUBTITLE** repeatedly to select different subtitle languages.

If the Disc contains subtitles, you can choose a language by pressing the button.

According to the Disc, you can have different language options for subtitle.

▪ Audio (DVD)

Press **AUDIO** repeatedly to select different audio languages.

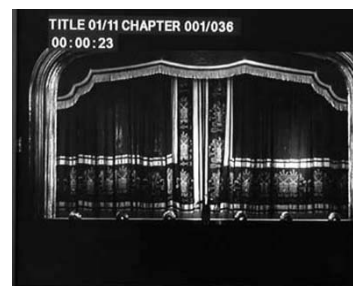
8. Special VCD and SVCD Controls

▪ Playback Control (PBC)

For VCD with Playback Control feature (Version2.0 only)

1) In stop mode, press **PBC** to toggle between "**PBC ON**" and "**PBC OFF**" → if you select "**PBC ON**", the disc menu (if available) will appear on the TV.

→ Use the **PREV/NEXT** to highlight your selection and press **OK** to confirm or use the **numeric keypad (0~9)** to select a play option.



2) During playback, pressing **PBC** will return to the menu screen (if PBC is on).

If you want to skip the index menu and playback directly from the beginning,

3) In stop mode, press **PBC** key on the remote control to switch off the function.

What is PBC (Playback Control)?

If your CD case is marked as VCD2.0 or PBC, you can select desired information or image in the MENU on the screen. You may have different initial image according to the contents included in the Disc.

9. Special MPEG4 Controls

▪ General operation

- 1) Load an MPEG4 disc and the disc **MENU** appears on the TV Screen.
- 2) Press **▲▼** buttons to select the folder and press **ENTER** to open the folder
- 3) Press **▲▼** to enter the file list and press **▲▼** or use the **numeric keypad (0-9)** to highlight an option.
- 4) Press **ENTER** to confirm then the playback will start from the selected file to the end of the folder.

During playback, you can

- 5) Press **PRE/NEXT** to select another file in the current folder.
- 6) Press **PAUSE** repeatedly to pause/resume playback.
- 7) Press **REPEAT** continuously to access different PLAY Mode.

FOLDER: Files will be played back once.

REPEAT ONE: one file being played repeatedly.

REPEAT FOLDER: all file being played repeatedly.

SHUFFLE: all files in the current folder being played at random order.

▪ Supported Format

1) Supported Video Formats

<i>Format</i>	DivX3.11, DivX 4, XviD	DivX5
Supported Versions	Bit rate may fluctuate; Device may skip encoding the high bit rate portions and begin decoding again when Bit rate returns to normal	720*480 @30fps 720*576 @25fps Maximum bit rate: 4Mbps

2) Supported Audio Formats

<i>Format</i>	MP3	WMA	AC3	DTS
Bit Rate	80~348kbps	56~192kbps	128~348kbps	1.5Mbps
Sampling Frequency	44.1khz	44.1khz	44.1/48khz	44.1khz

- 3) DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
Aspect Ratio: Although default DivX resolution is 640*480 pixels (4:3), this product support 720*480 pixels. The Video resolution higher than 800 pixels will not be supported.
Divx files created in DivX-QPEL will not be supported.

- 4) When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.

< NOTE ! >

- It is normal to experience an occasional pixilation during MPEG4 playback due to clarity of digital contents during internet downloading.
- Some MPEG4 files created on a personal computer may not be play back. That is why Codec Type, Version and Higher resolution over specification is not supported.
- This unit supports CD-R/RW written in MPEG4 in accordance with the "ISO9660 format"

10. Special MP3 and JPEG Controls

▪ General operation

- 1) Once you insert the MP3 Disc in the tray, smart navigation starts to operate automatically.
- 2) Use **▼▲** buttons to select the folder and press **ENTER** to open the folder.
- 3) If you want to choose a title existing in the folder, press **▼▲** or the **numeric keypad (0~9)** and press **ENTER** button to confirm.
- 4) The playback will start from the selected file to the end of the folder.

▪ Playback Selection

During playback, you can

- 1) Press **PREV** or **NEXT** to select another file in the current folder.
- 2) Use **▶◀▼▲** on the remote to rotate/flip the picture files.
- 3) Press **PAUSE** repeatedly to pause /resume playback.

In stop mode, you can select following different **PLAY MODE**.

SINGLE : Play the selected song once.

REP-ONE : Play repeatedly the selected song.

FOLDER : Play the songs in the folder on by one.

FOLDER REP : Play the songs in the folder repeatedly in order.

DISC SCAN : Explore the songs in the Disc playing only same tunes.

DISC : Play the songs in the Disc once.

DISC REP : Play repeatedly the songs in the Disc

RANDOM : Play songs repeatedly by random selection.

SHUFFLE ON : Play the songs once by ransom selection.

PROGRAM PO : Program the songs in the order that the user sets.



▪ Digest Functions (JPEG)

This function shows the content of the current folder or the whole disc.

- 1) Press **MENU** during playback. A thumbnail of 9 pictures appears on the TV screen.
- 2) Press **▶◀▼▲** to highlight one of the picture and press **ENTER** to start playback.
- 3) Move the cursor to highlight SLIDE SHOW on the bottom of the page to start playback from the first picture on the current page.
- 4) Press **MENU** to return to MP3/Picture CD menu.

▪ Playback with multi-angle (JPEG)

During playback, press **▶◀▼▲** to rotate the picture on the TV screen.

- 1) **▲**: flip the picture vertically
- 2) **▼**: flip the picture horizontally
- 3) **◀**: rotate the picture anti-clockwise
- 4) **▶**: rotate the picture clockwise

▪ Scan Effect (JPEG)

Press **ANGLE** repeatedly to choose different scan effect. Several of scan effect appears on the top left hand corner on the TV Screen.

▪ Playback speed control (MP3)

Press **▶◀** repeatedly to play backward /forward at different speed.
You can press **PREV/NEXT** to change the tracks.

▪ JPEG and MP3 simultaneous playback

- 1) Select an MP3 file, press **MENU** to select SLIDE SHOW.
- 2) Select a picture file and press **ENTER** or **PLAY** to start music slide show. The picture will be played back in sequence together with MP3 music.
- 3) To quit simultaneous playback, press **STOP**. The picture and MP3 music playback will stop and during simultaneous playback of JPEG and MP3, PREVIEW and NEXT keys are invalid.

11. DATA manipulation in USB device

Device selection

- 1) It works only when the **USB device** plugged in the Player
- 2) Press **GOTO** at stop mode and select one device on the menu and press **ENTER** to move that device mode.

Target Folder selection

- 1) You can select the Target Folder in **USB mode** only.
- 2) Select a **Target folder** by pressing **PBC** button.

File management menu selection (OSD).

- 1) it works at **STOP mode** only
- 2) Press **OSD** button at the position of a file or Folder what you want then the following menu will be appeared on the Screen.

A. Copy (DVD ->USB, USB -> USB)

- a) You can copy a selected file or folder to the Target Folder in USB memory.
- b) After selection of a file or folder what you want to copy, press **OSD** then select **"COPY"**
- c) File size and copy information will be show on the top left side of the screen and when the copy is completed, **"Finish"** will be appeared on the screen.
- d) If the Target Folder name or file names are same as the selected Folder name or file names. It will not work.



B. Move (USB -> USB)

- a) You can move the selected files to another folder in USB memory.
- b) Operation process is same as above **"A. COPY"** but select **"MOVE"** instead of **"COPY"**

C. Delete(works in USB mode only)

- a) You can delete the File or Folder.
- b) Operation process is same as above **"A. COPY"** but select **"DELETE"** INSTEAD OF **"COPY"**

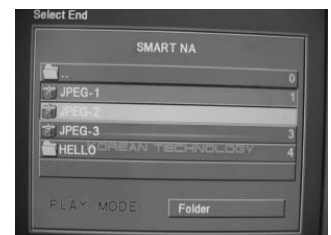
D. Rename(works in USB mode only)

- a) You can change the name of selected file or folder.
- b) After select a file or folder what you want to change the name, press **OSD** then select **"RENAME"**.
- c) You can write the name with On-Screen Keypad by pressing **▲▼◀▶** and **ENTER** button.
- d) Press **STOP** button to finish the name change.
- e) Press **CANCEL** to cancel the name change
- f) Press **PREV** button to move back.



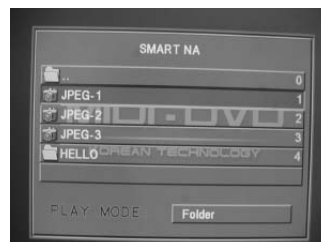
E. Select(DVD, USB)

- a) It selects some files in the DVD Drive or in the USB Device to copy at one time to another folder in USB Device or to delete and move at one time from USB memory only.
- b) Press **OSD** then press **"SELECT"**.
- c) Select a files what you want to copy or delete by pressing **ENTER** button.
- d) Press **STOP** to finish the file selection.
- e) Press **OSD** then select a function menu such as **"COPY"** or **"DELETE"** to copy or Delete.
- f) When the select function completed, the select mode will be cancelled automatically.
- g) To cancel the select function without using **"COPY"** or **"DELETE"** function, press **"SELECT"** again and **"SELECT OFF"** message will be appeared on the screen.



F. New Folder

- It creates a new folder in USB Device memory only.
- Press **OSD** and select "**New Folder**" then
- You can write the new folder name with On-Screen Keypad by pressing **▲▼◀▶** and **ENTER** button.



G. Properties(DVD, USB)

- It shows all information of file or folder.
- Press **OSD** and select "**PROPERTIES**" then you can see the file or folder information.

H. CANCEL : It cancels all COPY, MOVE, DELETE, RENAME, SELECT, NEW FOLDER and PROPERTIES functions.

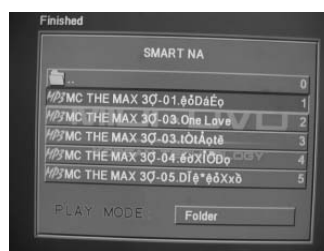
12. DATA Transferring (DVD→USB, USB→USB)

- Connect USB memory of MP3 Player to the USB port.
- Insert DATA disc into the player.
- Press **GOTO** to move to USB memory mode and select "**TARGET FOLDER**" by pressing **PCB** and move back to the DVD drive mode by pressing **GOTO** again.
- Press **OSD** then press **SELECT** button and select all files what you want to copy by pressing **ENTER** button and press **STOP** to finish the selection.

***NOTE** : Data means a Small size Movie file (MPEG4, DivX, XviD, DAT, VOB files), Music file (MP3, ASF files) and Photo files (JPEG, BMP files)



- Press **OSD** then press "**COPY**" to start Data copy to the "**TARGET FOLDER**" in USB memory. If do not select the "**TARGET FOLDER**", it will be copied to ROOT folder in USB memory automatically.



- 6) Please move to USB memory by pressing **GOTO** and check the copied data whether it was copied correctly.



13. MP3 Encoding (CDDA→USB)

- 1) Use this function to encode the audio data in **Audio CD** or **CDG** disc to **USB** at **MP3 file format**.
- 2) Insert Audio CD or CDG disc to the DVD drive and plug-in USB memory with the Player.
- 3) Press **GOTO** button to move to USB mode at stop mode and select a "**TARGET FOLDER**" by pressing **PBC** button to save the selected data and move to DVD drive mode by pressing **GOTO** again.
- 4) Press **TITLE** button to select the encoding option. (**ON/ ON-PLAY/ OFF**)
 - A. **ON** : There is no audio sound out put while encoding a file.
 - B. **ON-PLAY**: There is audio sound output during encoding a file but the sound will be cut off because of the saving time in USB memory. It is not related with the sound quality of encoded MP3 file.
- 5) The encoded file will be saved in "**TARGET FOLDER**" by Track order with the file name of "**TRK-***.mp3**".

EX) If you encode the **Track #3** of the CD or CDG disc, the file name will be "**TRK-**03.mp3**".
- 6) Move to USB mode by pressing **GOTO** at stop mode to check the encoded file.

<NOTE>

If you plug-out the USB memory or power off the player during the works of COPY, DELETE or RENAME, it will cause to the damage of other files in USB memory.

TROUBLE SHOOTING

WARNING!

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

Check other connected equipments (Amp, Monitor, etc) since they may be a cause of trouble.

If a fault occurs, first check the points listed below before taking the system for repair.

If you are unable to remedy a problem by following these hints, consult your dealer or us for help.

Tray does not come out.

Check if the AC cord is plugged in correctly.

The set does not play the Disc

Check if the Regional Display Number of the Disc is 3 or All. The Disc you bought abroad may not work.

Check if you inserted the Disc with its printed side up.

After I press the PLAY button, it takes long before displaying the image

If you press PLAY/STOP/OPEN buttons quickly again and again, the set stops all movement for certain duration of time to protect the Disc drive monitor.

Check if your batteries are strong enough.

No power

Check if the AC power cord is properly connected.

Press the ON-OFF button on the front of the DVD system to turn on the power.

No picture

Refer to your TV's manual for correct Video In channel selection. Change the TV channel until you see the DVD screen.

Check if the TV is switched on.

Distorted picture

Sometimes a small amount of picture distortion may appear depending on the disc being played back. This is not a malfunction.

Completely distorted picture or black/white picture with DVD

Connect DVD Player directly to the TV.

Make sure the disc is compatible with the DVD/ Player.

Ensure that the DVD Player's TV System is set to match that of the Disc and your TV.

No sound or distorted sound

Adjust the volume.

Check the connections among equipments (Amp, TV, and Speaker) and initial settings.

Check if the Disc is not harmed and cleanse the Disc.

Check if the speaker is inferior. If so, exchange it.

No audio at digital output

Check the digital connections.

Check if your receiver can decode MPEG-2 or DTS and if not, please make sure the digital output is set to PCM.

Check if the audio format of the selected audio language matches your receiver capabilities.

Poor sound quality

Check the connections with Amp.

Check if the connection plugs are not loosened.

Check if the connection terminals have foreign substances stained.

Check the sound volume settings of each audio device and adjust it.

Microphone does not work

Check if microphone is switched ON.

Check if the sound volume of Amp is fixed at the minimum lever and then adjust it.

Check if the microphone is inferior. If so, exchange it.

Disc can't be played

The DVD+R/CD-R must be finalized.

Ensure the disc label is facing up.

Check if the disc is defective by trying another disc.

If you have recorded a Picture CD or MP3 CD yourself, ensure that your disc contains at least 10 Pictures or 5 MP3 tracks.

Region code incorrect.

Although the Disc is turning, I have no image or a bad image

Check if the TV is switched ON. Check its connections.

Check if the set is not on the PAUSE mode.

Check if the Disc is stained by any foreign substances on it or damaged.

Check if the Disk is not an inferior good.

If the screen display moves to a bright image from a dark one suddenly, the image can tremble instantaneously.

This is not a mechanical trouble.

Picture freezes momentarily during playback

Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.

No return to start-up screen when disc is removed

Reset the unit by switching the player off, then on again.

The player does not respond to the Remote Control

Aim the Remote Control directly at the sensor on the front of the player.

Reduce the distance to the player.

Replace the batteries in the Remote Control.

Re-insert the batteries with their polarities (+/-signs) as indicated.

Buttons do not work

To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.

Player does not respond to some operating commands during playback

Operations may not be permitted by the disc. Refer to the instructions of the disc jacket.

Desired voice / sub-title language does not work.

Only the Voice / subtitle languages included in the DVD Disc functions.

They can be played according to the Disc MENU.

Shooting angle modification does not work during the playback.

You can modify the screen-shooting angle only if the DVD Disc contains different angles of screens.

It works only if the Disc and Screen have ANGLE mark.

During the DVD playback, the MENU page doesn't appear although I press the MENU button.

Check if your Disc has MENU.

Check the angle, distance and obstacles of the remote control.

Check if the batteries of the remote control are strong enough.

I cannot select a screen ratio

You can see the DVD Disc in 16:9 Wide, 4:3 L/B (Letter Box), 4:3 P/S (Pan Scan) according to the filmed State. However, the Disc made in 4:3 can provide only 4:3 screen modes. Check the DVD case and select a Proper function.

Scoring does not function

Check if the Scoring of Karaoke Settings is set as OFF. If so, modify the setting.

When using the microphone, speaker makes a noise.

It can happen when the microphone and speakers do not keep sufficient distance.
Keep the microphone far from the speaker. Do not place it toward the speaker, either.

DVD Player cannot read CDs/DVDs

Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Player for repair.

Menu items cannot be selected

Press STOP twice before selecting System Menu
Depending on the disc availability, some menu items cannot be selected.

Unable to play MPEG4 movies

Check that the MPEG4 file is encoded in Home Theater mode with DivX 5.x encoder.

Unable to recognize USB device

Pull out USB device and re-connect to the player.
Check if the USB cable is plugged in correctly.
Check if the USB device is normal or broken.
Check the Digital camera, Camcorder and 3.5 inch HDD whether has the external Power supply or not.

If you are unable to remedy a problem by these hints, consult your dealer or service center

SPECIFICATION

General Specification	.Power source : AC 100-240V 50/60Hz(Free Volt) .Power consumption : <15W .Weight : 3.1Kg .Dimensions : 430mm(W) x 280mm(D) x 91mm(H) .Operating temperature : +5 ~+38° .Operating Humidity : 10% ~ 75% .Supported Disc : WMA KARAOKE DVD, VCD KARAOKE, DVD KARAOKE, KARAOKE CDG, DVD, DVD-R/RW, VCD, SVCD, Audio CD, CD-R/RW, MP3 CD, CDG, MPEG4 and JPEG.
Disc	DVD: Reading Speed : ~3.49~4.06m/sec, Approx. Play Time : ~135m(Single layer Disc) CD(12cm): Reading Speed : ~4.8~5.6m/sec, Maximum Play Time:~74min CD(8cm): Reading Speed : ~4.8~5.6m/sec, Maximum Play Time:~20min VCD(12cm): Reading Speed : 4.8~5.6m/sec, Maximum Play Time: 74min(Video+Audio)
Video Performance	.C-Video output : 1.0Vpp(75 Ω) .S-Video output : Brightness signal : 1.0Vpp(75 Ω) Color Signal : 0.3Vpp(75 Ω) .Component video out : Y : 1.0Vpp(75 Ω) Pb : 0.7Vpp(75 Ω) Pr : 0.7Vpp(75 Ω) .Video output : Progressive Scan(480p/576p/720p/1080i) .PAL & NTSC disc compatible
Audio Performance	DA Converter : 24bit DVD : fs 96kHz 4Hz-44kHz fs 48kHz 4Hz-22kHz SVCD : fs 48kHz 4Hz-22kHz fs 44.1kHz 4Hz-20kHz CD/VCD : fs44.1kHz 4Hz-20kHz
Audio Output	.5.1Channel output : F/L, F/R, C, S/W, R/L, R/R .4Channel output(Karaoke) : F/L, F/R, R/L, R/R .Digital out(Optical) : -18 dB, Wavelength : 660nm .Digital out(Coaxial) : 0.5Vpp(75Ω) .*Frequency Response : 48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz .Signal-Noise(1kHz) 110dB .Dynamic range(1Khz) 100dB .Crosstalk(1kHz) 105dB .Distortion/noise(1kHz) 90dB .Total Harmonic Distortion: 0.004%
Microphone	MIC input : 2 Tone Control : Low : 100Hz ±12dB High : 100Khz±12dB