



Radio Engineering Industries, Inc.

Mobile DVD Player

DVD/VCD/CD/MP3

Instruction Manual



DVD

P/N 640364

AUDIO SYSTEMS

Congratulations to your purchase of the REI DVD Player. This product has been designed and built to deliver the highest quality video reproduction with CD sound.

We are sure you'll enjoy watching your favorite movies with this system as a part of your multimedia. For best results, please consult a professional mobile electronics installer for application advice or troubleshooting.

To guarantee top performance, we recommend to using The Link installation accessories such as RCA interconnects, power cables, and speaker wire. Thank you for choosing REI products for your mobile entertainment system.

FEATURES

Compatible with PAL-DVD (Video CD) and NTSC DVD (Video CD).

This player can play discs recorded in either PAL or NTSC format.

- A single LSI chip now integrates all major DVD playback circuit functions including MPEG2 decoder, video D/A converter, and audio decoders.
- L/R stereo analog audio outputs for connection to existing head unit aux inputs.
- Video output is composite video.
- Supplied remote handles multi-function software (multi-language audio-track/subtitle, multi-angle, multi-story, etc), plus all basic functions.
- Last position memory

USE THIS PRODUCT SAFELY

When Driving

Keep the volume level low enough to be aware of road and traffic conditions.

Moisture

Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire Or other damage.

When Parked

Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.

Use the proper Power Supply

This product is designed to operate with a 10 -30 volt DC.

Protect the Disc Mechanism

Avoid inserting any foreign objects into the slot of this player.

Failure to observe this may cause malfunction due to the precise mechanism of this unit.

Use Authorized Service Centres

Do not attempt to disassemble or adjust this precision product, please refer to the Service Centre near by for service assistance.

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Safety information

Caution:

Mobile DVD player is a class A laser product. However this mobile DVD player uses a visible /invisible laser beam which could cause hazardous radiation exposure if directed. Be sure to operate the mobile DVD player correctly as instructed. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not repair by yourself, refer servicing to qualified person.

Warning:

- to reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
- to reduce the risk of fire of electric shock, and annoying interference, use only the recommended accessories.

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

Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories .

Region Management Information:

This Mobile DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this Mobile DVD Player cannot play this disc.

Disc formats supported by this player(12 & 8 cm disc)

- **CD:** CD-DA, CD-R/RW, CD-ROM, MP3
- **VCD:** VCD, SVCD
- **DVD:** DVD5, DVD9, DVD10, DVD18

Discs which cannot be played with this player

- DVD-ROM
- DVD-RAM
- CDV
- CD-G

Handling and cleaning

- Dirt, dust, scratches and warping disc will cause mis-operation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should be kept in its case when not in use to prevent damage.
- Do not place discs in following place:
 1. Direct sunlight
 2. Dirty, dusty and damp areas
 3. Near car heaters
 4. On the seats or dashboard

Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistened with isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may mar the surface of the disc.

Note:

A disc may become somewhat scratched (although not enough to make it unplayable) depending on how it is handled and the conditions of exposure. Note these scratches are not an indication of any problem with the Player.

Label side up



Do not touch the underside of the disc

Do not bend

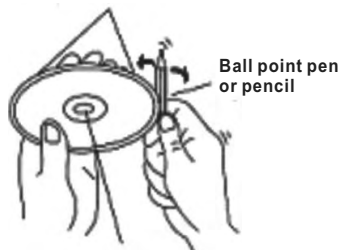


Wipe the disc from center
Toward the outside edge

Preparing New Discs with Rough Spots

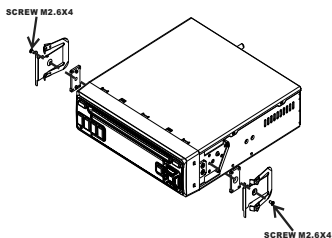
A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown below. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.

Rough spots on
outside edge



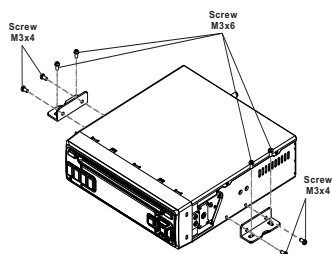
Rough spots
on inside edge

Installation



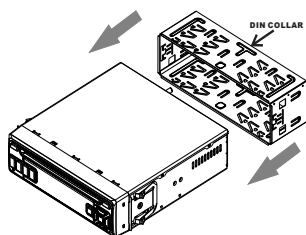
Step1:

Attach 2 side brackets by the supplied screws



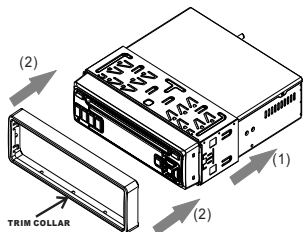
Note:

(1) Attach the L-form brackets of the player using the supplied screws (M3x4).



Step2:

Slide the DIN collar into DVD player from back



Step3:

(1) Slide the DVD player into in-dash slot
(2) Attach Trim collar into front panel.

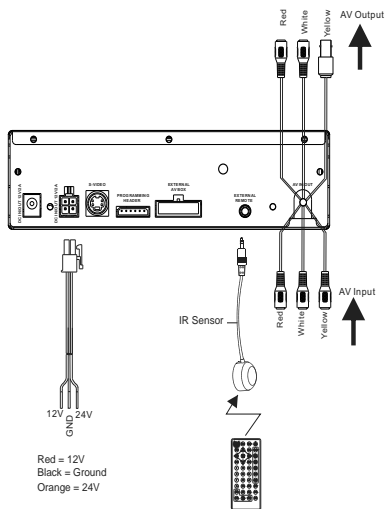


Figure: Electrical Connections1

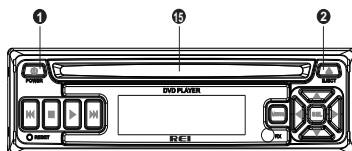
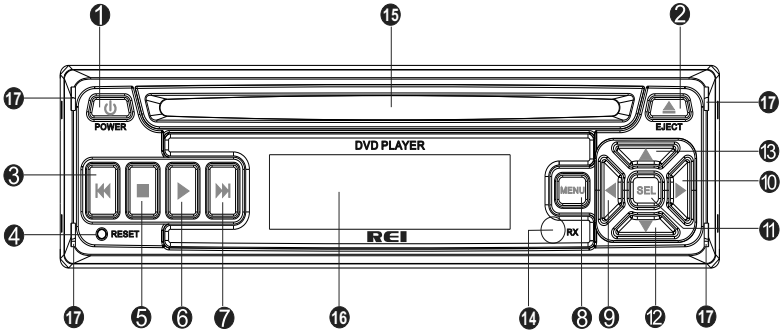


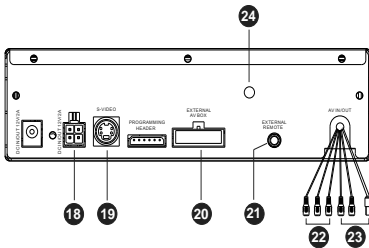
Figure: Electrical Connections2

Front Panel:



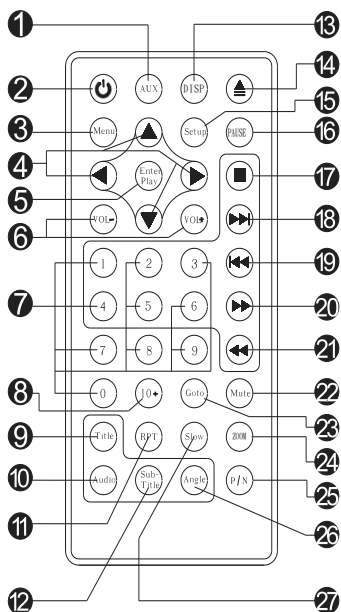
1. Press POWER to turn the unit ON or OFF
2. Eject button
3. Press to skip back one track/title/chapter
4. Press [RESET] button will make hardware reset to circuits built in the player.
5. Press to stop playback
6. Begin playback and display
7. Press to skip to the next title/chapter/track
8. Display the root menu that is stored on the DVD disc. Selects between PBC ON and PBC OFF on a VCD
9. In MENU mode, this button move the cursor to the left
10. In MENU mode, this button move the cursor to the right
11. Confirm the Track/Chapter selected with the number key or selected with the cursor buttons on the monitor, or return to playback
12. In MENU mode, this button moves the cursor to the down.
13. In MENU mode, this button moves the cursor up.
14. IR Sensor
15. Disc Slot
16. LCD Panel (Anti-glare)
17. DIN Collar Release Holes

Back Panel:



18. 4-pin Power IN: +12VDC/+24VDC/GND
19. S-Video OUT
20. Control Interface
21. External IR IN
22. A/V IN: 3 * RCA
Yellow: Video/CVBS
Red/White: Audio-R/Audio-L
23. A/V OUT: 2 * RCA + BNC
Yellow(BNC): Video/VBS
Red/White(RCA): Audio-R/Audio-L
24. Mounting Stud

Remote Control:



1. Change the video/audio to mode AV1 or DVD.
2. Press POWER to turn the unit ON or OFF.
3. Display the root menu that is stored on the DVD disc. Select between PBC ON and PBC OFF on a VCD.
4. In MENU mode, these buttons move the cursor to the up or down.
In MENU mode, these buttons move the cursor to the left or right.
5. Confirm the Track/Chapter selected with the number key or selected with the cursor button to monitor, or return to playback.
6. Increase or decrease the sound volume.
7. Numeric buttons
8. Press to increase 10
9. Display the TITLE menu that is stored in DVD disc.

10. Changes the AUDIO soundtrack on multi-audio soundtrack DVD disc. Changes the sound output mode of the VCD/CD disc.
11. Switch the repeat mode of DVD/VCD/CD/MP3 disc.
12. Changes the SUBTITLE language on multi-subtitle language DVD disc.
13. Display statistical disc information during playback.
14. Eject button
15. Display the SETUP menu.
16. Press to pause playback.
17. Press to stop playback.
18. Press to skip to the next track or chapter.
19. Press to skip back one track or chapter.
20. Press to play forward rapidly.
21. Press to play reverse rapidly.
22. Mute the sound.
23. Disc search button, used in conjunction with numeric button
24. Zoom in by 2X, 3X, 4X, 1/2, 1/3 or 1/4.
25. Select playing discs in one of PAL, NTSC, and Multi(recorded in disc) signal formats.
26. Changes the view angle on multi-angle DVD disc.
27. Selects forward slow motion playback at the normal speed of 1/2, 1/4, 1/8 or 1/16.

Preparing the Remote Control

Inserting the Battery

1. Open the battery compartment cover.
2. Insert 2 new batteries (1.5V AAA).
Make sure that the positive and negative terminals of the battery are oriented Indicated.
3. Close the cover




Using the Remote Control

Point the remote control toward the front of the player (at the remote receiver "eye")
Operation angle: About ± 30 degree in each
Direction of the front of the IR mark.

To prevent damage to the unit, be sure to follow the connection diagram (page 5).




Loading a DVD/VCD/CD Disc (Figure: Electrical Connections 2)

1. Turn the ignition to the Accessory (ACC) position.
2. Press the  POWER button (1).
3. Insert the disc into the disc slot (15) with the label side of the disc facing up.
4. The player starts playback automatically.



Ejecting a disc

Press  (EJECT) button (2) to eject the disc.

Stopping play





1. Press the  (Stop) button to stop playback. Press the  (play) button for playback.
2. Press the  (Stop) button twice. It will stop the playback and go back to initial Track/Chapter.

Rapid Forward/Reverse

Press FF  & REW  during play. Each time the button is pressed the speed changes (depending on the disc format) as follows:
DVD/VCD/CD/MP3:

Normal » 2X » 4X » 8X » 16X » 32X

Skipping Track

Press  /  on the remote handset or on the front panel during playback. Press  to skip to next track, and  to back one track.

Slow Motion Playback

Press the slow button at playback. Each time, the button is pressed the playback changes

(depending) on the disc format) as follows:
DVD/VCD:

Normal » 1/2 » 1/4 » 1/8 » 1/16

Pause (still picture)

Pressing PAUSE (II) button during playback, it will stop playing temporarily.
Press the PAUSE button the second time for playback.

Repeat

Press the REPEAT (RPT) button to select repeat mode as follows:

DVD:

Press the REPEAT (RPT) button to select repeat mode as follows.

Chapter » Title » ALL » OFF

SVCD/VCD/CD-DA:

Press the REPEAT (RPT) button to select repeat mode as follows.

Track » ALL » OFF

1. Repeat Track mode continuously repeats the current track/song.
2. in Repeat ALL mode, all tracks /songs on the disc are repeated.

MP3:

Folder » Shuffle » Random » Single
Repeat Folder ← Repeat One ←

ZOOM

If the ZOOM button is pressed, picture will enlarge each time by 2X, 3X, 4X, 1/2, 1/3, 1/4. But some DVD discs pictures can not be zoomed.

TITLE

Press TITLE button when DVD is in playback, it will come back to TITLE menu to play.

GOTO

Press GOTO button to start searching function.

(1) CD/MP3/JPEG

Press GOTO button, it will start searching file/ elapsed time or track. Press MENU button to exit from this function.

(2) VCD/SVCD

Press GOTO button, "GOTO" menu will appear

for users to adjust some parameters during disc playing, such as playing track, and modes for Repeat/display.

(3) DVD

Press GOTO button, "GOTO" menu will appear for users to adjust some parameters during disc playing such as playing title/chapter, language used for audio/subtitle, shot angle, and repeat /display modes.

Mute Function

Press MUTE button on the remote control to cut down the sound output.

Press it again or VOL+/VOL- to resume to previous volume Level.

VOL+ / VOL-

Volume Control:

Press VOL+ on the card remote control to increase the sound level and press VOL- to decrease the sound level.

Remote Sensor(IR)

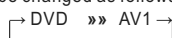
Point the remote handset to the remote sensor. Receive the signal from remote handset.

Turning the player on/off

Press the POWER button on front of panel or press POWER button on remote control to turn the player on or off.

Audio/Video Mode

Whenever you press AUX button, input source is to be changed as follows.



AUDIO/VIDEO IN

The unit can accept an auxiliary(AUX) signal from external equipment.

1. Connect the equipment and the unit with A/V cables. the AUDIO OUT of the external equipment is connected to the AUDIO IN jack on the back of the unit , the VIDEO OUT of the external equipment is connected to the VIDEO IN Jack of the unit.
2. Turn on the external equipment and the unit.
3. Select input source by pressing the AUX button on the remote control. Select the AV1 input from extern AV signal.
4. The signals are also routed through the video output jack and the audio output jack of the DVD unit.

On-Screen Display Function

Press the DISP button during playback to show the timing contents of the current disc on the upper-left corner of screen.

(1) DVD:

Title Elapsed
TT 01/03 CH 02/31 00:01:36
TT 01/03: current title/total titles,
CH 02/31: current chapter/total chapters under current title
Title Elapsed: one of 5 display modes.

Available display modes are as follows:

Title Elapsed → Title Remain → Chapter Elapsed
← Display off ← Chapter Remain ←

00:01:36: Show elapsed or remaining time based on the selected display mode

(2) SVCD/VCD:

Single Remain
Track 01/01 47:01
Track 01/01: current track/total tracks
Single Remain: one of 3 display modes.

Available display modes are as follows:

Single Elapsed → Single Remain → Display Off
↑

47:01: Show elapsed or remaining time based on the selected display mode

(3) CD:

Total Elapsed
Track 01/18 10:06
Track 01/018: current track/total tracks
Single Remain: one of 4 display modes.

Available display modes are as follows:

Single Elapsed → Single Remain →
↑ Total Remain ← Total Elapsed ←

10:06: Show elapsed or remaining time based on the selected display mode

(4) MP3/JPEG:

00:05 04:20 Folder Key +00
002/013 Repeat Folder Off

Based on the item highlighted by the cursor in orange, elapsed/total time/ordinal number for this item and total items in this folder will be shown. By pressing DISP button first time, "Folder", "Key +00", "Off", and current repeat Mode ("Repeat Folder") will be shown. For clearing display messages, press DISP button second time.

Multi-audio Language Function

(1) DVD:

Press AUDIO button during playback. Each time the button is pressed, number of the audio soundtrack language is changed in a sequential order.

Notes:

The language number is different according to the disc. Some disc only contain one language soundtrack. When no different language soundtrack is available, 0 will be displayed in the top left corner of the screen.

(2) VCD/CD:

Press AUDIO during playback.

It is possible to switch the sound between monaural and stereo sound.

Stereo → Mono Left → Mono Right → Mix-Mono
↑

MENU Function

(1) DVD:

Press MENU button while the disc is playing and the disc menu will be displayed. You can navigate with the remote control navigation keys and select a feature with the ENTER key. Press MENU twice, it will go back to the previous place.

(2) VCD:

Press MENU button while the disc is playing, you can switch between "PBC ON" and "PBC OFF" mode.

Title Menu Function (For DVD only)

If the DVD has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.

1. Press TITLE during playback. The title menu is display.
2. Press the cursor button shown on the monitor, select preferred title by the cursor button and confirm by ENTER key.

Multi- subtitle Language Function

(For DVD only)

Press SUBTITLE during playback.

Each time the button is pressed, number of the subtitle language is changed in a sequential order.

Notes:

The language number is different according to the disc.

Some discs only contain one language soundtrack. When no different language soundtrack are recorded, 0 will be display at screen left top corner.

Multi-angle Function (For DVD only)

Press ANGLE during playback.

Each time the button is pressed, number of the angle changes in sequential order.

Notes:

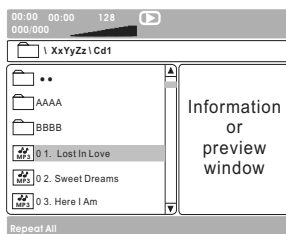
The angle number is different according to the disc.

The function only works for discs having scenes recorded at different angles.

When no different angles are available, 0 will display in the top left corner of the screen.

MP3 /MPEG/JPG Disc PLAY

MP3 disc is playing as the format of FOLDER shown below. For example:

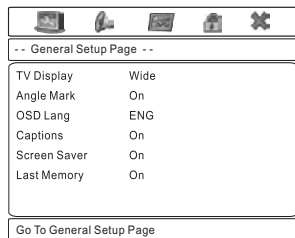


1. Use ▲ ▼ ◀ ▶ to select the item or folder, then press ENTER button.
2. Pressing REPEAT button repeatedly can select six kinds of repeat play mode.
3. During the playback, use ⏮ / ⏭ to skip an item ahead or back.
4. Use ▲ ▼ buttons and move yellow cursor to the folder [] ● ● . Press ENTER, and go back to previous folder window.

Note: Press MENU button to return FOLDER window when playing JPEG items.

INITIAL SETUP

SETUP MENU---MAIN PAGE



1. Press **SETUP** in the stop mode.
2. The initial **SETUP** menu is displayed.
3. Select the preferred item by using the **◀ / ▶** buttons.

There are four setup pages available:

a. General Setup

This setup page includes all the items of system and external TV display features. Please refer to **GENERAL SETUP** menu.

b. Audio Setup

This setup page includes all the items for audio effect features. Please refer to **AUDIO SETUP** menu.

c. Preference

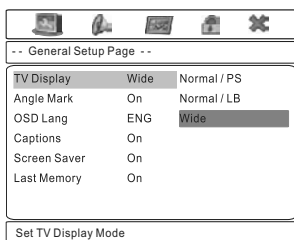
This setup page includes all the system features for disc playing. Please refer to **PREFERENCE** menu.

d. Password Setup

This setup page includes password features. Please refer to **PASSWORD SETUP** menu.

4. Press **ENTER** button to start navigating the selected page.
5. By pressing **▼** or **▲** buttons, move the yellow cursor to the item that users want to adjust.

GENERAL SETUP



TV Display

This is to select the appropriate aspect (4:3 or 16:9) according to the connected monitor.

(1) Normal / PS (For 4:3 TV)

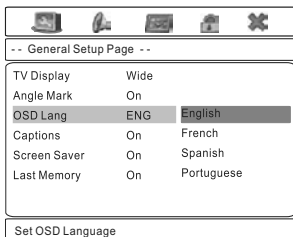
Play back in the **PAN & SCAN** style. (If wide screen monitor is connected, the left and right edges are cut off)

(2) Normal / LB (For 4:3 TV)

Play back in letterbox style. (If wide screen is connected, black bands appear at bottom and top of the screen.)

(2) Wide (For 16:9 TV)

Select when a wide-screen monitor set is connected.



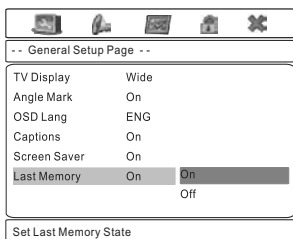
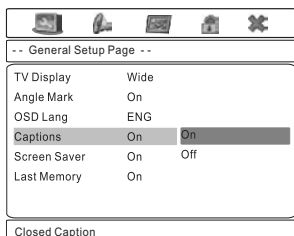
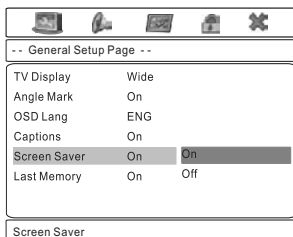
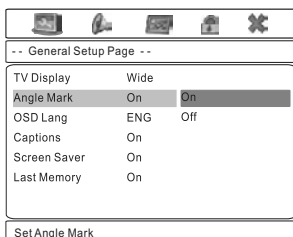
OSD Lang

This item is to select the appropriate language for any on-screen-display (OSD) messages.

Once the cursor is moved to item "OSD Lang", press **ENTER**, and then **▼** or **▲** to locate an option. There are 4 languages available:

- (1) English,
- (2) French,
- (3) Spanish,
- (4) Portuguese.

Press **ENTER** to select.



Angle Mark

This is to enable (On) or disable (Off) the ability for system to display a "video camera" mark on the upper-right corner of the screen to notify users that contents in the disc have scenes recorded at different angles.

Note:

Video camera mark



Captions

This is to enable (On) or disable (Off) the ability for system to display the subtitle language on the screen.

Screen Saver

This is to enable (On) or disable (Off) the ability for system to play screen saver.

When DVD is in the stop or pause mode, or there is no disc in the slot the screen saver will be played after 3 minutes that no activities such as

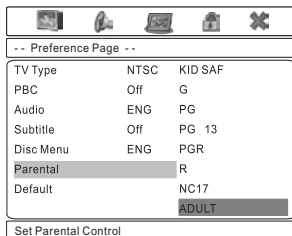
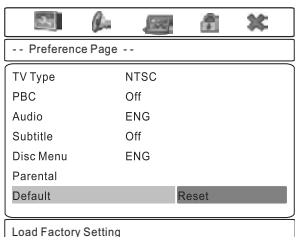
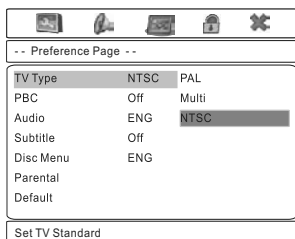
- (1) pressing keys on the front panel or remote
- (2) disc loading.

Last Memory

This is to enable (On) or disable (Off) the ability to memorize the last playing position of the disc when system is powered off.

As long as this function is enable, system will automatically play disc from the last position when DVD is powered off.

PREFERENCE



TV Type

This player can play discs whose contents are recorded in either PAL or NTSC format.

Select NTSC format, when you connected to NTSC monitor.

Select PAL format, when you connected to PAL monitor.

Select Multi format, the player's monitor output format will follow the content format in the disc.

Default

Navigate to the "Preference Page" in the DVD player's SETUP menu, and then select item "Default".

Press the ENTER button to restore the initial factory settings except

- (1) password,
- (2) setting of password mode
- (3) parental rating level

Parental

Press ENTER button for changing the preferred rating level between the following 8 level:

- (1) KID SAF (2) G (3) PG (4) PG 13 (5) PGR (6) R (7) NC17 (8) ADULT

By pressing ▲ ▼ buttons, move yellow cursor to the desired level. Press ENTER to select. After that, the following OSD will show and ask users for password. If users input the correct one, the selected rating level is accepted and activated.



Subtitle

Select the preferred SUBTITLE language by using the cursor buttons and confirm by pressing ENTER.

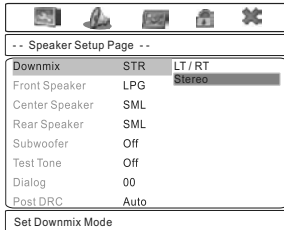
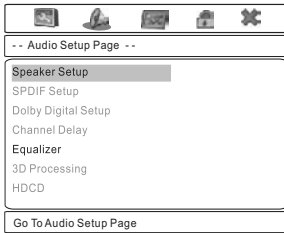
Audio

Select the preferred AUDIO soundtrack by using the cursor buttons and confirm by pressing ENTER.

Disc Menu

DVD Menu selects the preferred DISC MENU language by using the cursor buttons and confirm by pressing ENTER.

AUDIO SETUP



Speaker Setup → Downmix

This is to allow users selecting the sound effect mode for 2-channel audio output.

After navigating the yellow cursor to the item "Speaker Setup" in the "Audio Setup" page, then press ENTER to open this page as shown in the 2nd picture above.

Press ENTER again, now users can navigate the yellow cursor by buttons ▲▼ to one of those two modes that are **LT/RT** and **Stereo**. Press ENTER to select.

Notes: (Audio Downmix Mode)

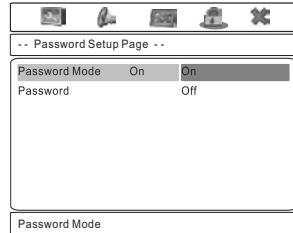
1. LT/RT mode

- (Left channel)
mix the signals from center/rear-left/front-left positions.
- (Right channel)
mix the signals from center/rear-right/front-right positions.

2. Stereo mode

- (Left channel)
mix the signals from center/rear-left/front-left/rear-right positions.
- (Right channel)
mix the signals from center/rear-right/front-right/rear-left positions.

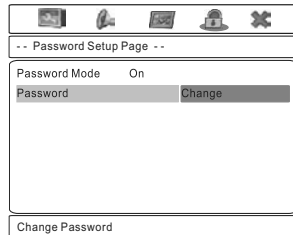
PASSWORD SETUP



Password Mode

This is to enable (On) or disable (Off) the ability for system to check password when rating level of parental control is being changed.

During users' changing this mode, System will ask users for password.

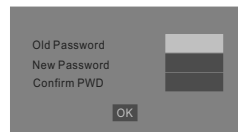


Password

This is to allow users to replace the password with new appropriate one.

After navigating the yellow cursor to the item "Password" in the "Password Setup" page as shown on the above picture, then press ENTER to open the change process.

Press ENTER again, the following OSD menu will appear for users to change old password.



Additional Information

Notes

To avoid shorts in the electrical system, be sure to disconnect the power cable before beginning installation.

Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.

When replacing fuse, be sure to use only fuse of the same rating prescribed on this unit.

With DVD-R/DVD-RW discs, only recordings made in the video format (Video mode) can be played back. DVD - RW discs recorded in the Video Recording format (VR mode) cannot be played back.

Even with DVD-R/DVD-RW discs featuring recordings made in the Video format (Video mode), playback may not be possible with this unit due to disc characteristics or scratches or dirt on the disc. Dirt or condensation on the lens inside this unit may also prevent playback.

Playback of discs recorded with a PC using the correct format is possible but depending on the application software, environmental settings and other factors playback may not be possible (For details, inquire at the store or dealer where you purchased the application Software.)

CD - Extra discs can be played back as music CDs.

Normal playbackable discs are CD-R/CD-RW other than those recorded with a music CD Recorder.

Playback of music CD-R/CD-RW discs even than those recorded with a music CD recorder, may not be possible with this unit due to disc characteristics or dirt on the disc. Dirt or condensation on the lens inside this unit may also prevent playback.

Titles and other text information recorded on a CD-R/CD-RW discs can not be displayed by this unit.

If you insert a CD-RW disc into this unit to playback, it will take a bit longer time than when you do with a conventional CD or CD-R disc.

Read the precautions with the CD-R/CD-RW discs before using.

Restore Default

Navigate to the "Preference Page" in the DVD player's SETUP menu, and then select item "Default" by pressing ENTER button.

Press the ENTER button again to restore the initial factory settings.

Default Tables

General Setup	TV Display	Wide
	Angle Mark	On
	OSD Lang	ENG
	Captions	On
	Screen Saver	On
	Last Memory	On
Preference	TV Type	NTSC
	PBC	Off
	Audio	ENG
	Subtitle	Off
	Disc Menu	ENG
	Parental	ADULT (un-resettable)
Audio Setup	Speaker Setup	Downmix --> LT/RT
Password Setup	Password Mode	On (un-resettable)

Note:

The default password is "136900".

The password will not be restored to default one after operating the "**Restore Default**" mentioned above.

Technical Specifications

Supply Voltage:	10-30VDC, negative ground
Environment temperature:	0°C ~ 60°C
Chassis Dimensions:	187x178x50(mm)
Current Consumption:	Less than 1A @ 12VDC Quiescent \leq 90mA
Video system	NTSC/PAL/AUTO
Discs Played:	(1) DVD-VIDEO, DVD-R/W, DVD+R/RW ■ (12 & 8 cm) single-sided, single-layer ■ (12 & 8 cm) single-sided, double-layer (2) Compact Disc(CD-DA, VIDEO CD, CD-R/RW, MP3) ■ (12 & 8 cm) disc
Audio Output Level:	2ch, 8.0 \pm 0.5 Vp-p (10K Ω)
Video Output Level:	1 \pm 0.2V(75 Ω)
Characteristic	(1)Frequency Response 20Hz~20KHz (\pm 2dB) (2)S/N Ratio 70dB(JIS) (1KHz) (3)Channel separation \geq 55dB (1KHz)

Note:

Specifications and design are subject to modification, without notice, due to improvements in technology.