

ROSEN®



a new generation of leadership in mobile video

video

R5505 DVD/CD/MP3 Player w/ TV Tuner ***R5506 DVD/CD/MP3 Player***

Owner's Manual and Installation Guide



Warning!

THE R5505/R5506 DVD/CD/MP3 PLAYERS ARE DESIGNED TO ENABLE VIEWING OF DVD OR CD-VIDEO RECORDINGS ONLY FOR REAR-SEAT OCCUPANTS.

MOBILE VIDEO PRODUCTS ARE NOT INTENDED FOR VIEWING BY THE DRIVER WHILE THE VEHICLE IS IN MOTION. SUCH USE MAY DISTRACT THE DRIVER OR INTERFERE WITH THE DRIVER'S SAFE OPERATION OF THE VEHICLE, AND THUS RESULT IN SERIOUS INJURY OR DEATH. SUCH USE MAY ALSO VIOLATE STATE LAW.

ROSEN ENTERTAINMENT SYSTEMS DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED USE.

About Installation

Installation of mobile audio and video components requires experience with a variety of mechanical and electrical procedures. Even though this manual provides general installation and operation instructions for your new, it does not show the exact installation methods for your particular system or vehicle.

If you do not have the required knowledge and experience to successfully complete the installation, we strongly recommend consulting an authorized Rosen/necvox dealer about professional installation options.

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INTRODUCTION

The R5505 and R5506 are full-featured disc players, supporting DVD, CD-Video, CD-Audio, and MP3 playback, and are designed specifically for the mobile environment. They are intended for use with other Rosen/necvox products and Rosen/necvox video monitors, and can also be integrated with many other products as part of a complete mobile video solution. With a digital audio output, they can also support use of optional digital audio processors. These DVD players incorporate many different video output settings to allow the best possible viewing experience, regardless of what type of video monitor you may be using.

The R5505 and R5506 play DVD discs in PAL or NTSC formats (NTSC is the standard North American video format), CD-Audio discs, and CD-recordable discs with MP3 files. For more details on disc types supported, please see *"Discs Played by the Unit"*

The remote control (included) provides access to the full set of standard DVD functions, such as subtitle control, digital freeze-frame viewing, viewing from multiple camera angles, selection of various language audio soundtracks, and digital playback at fast or slow speeds.

Note:

- *The R5505 and R5506 are designed to be components in a full audio/video system. If you have any questions about compatible components, such as monitors, FM modulators, or other audio/video products, contact your authorized Rosen/necvox dealer.*

Accessories Supplied

- Infrared (IR) remote control
- External IR Receiver for optional applications
- Power-supply harness and RCA audio and video cables
- Assorted mounting hardware
- This Owner's Manual / Installation Guide

About the Registered Marks

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

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

FCC Approval

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

CARE AND MAINTENANCE

Handling Discs

Always handle a disc by its edges. Never touch the surface of the disc directly. To remove inadvertent fingerprints and dust, use a soft cloth and wipe in a straight line from the center of the disc to the outside edge. Never use liquid or aerosol cleaners, anti-static spray, or thinner to clean the disc surface. Do not place discs in the following places: direct sunlight; dirty, dusty and damp areas; near car heaters; on the seats or dashboard. Avoid using adhesive labels on discs.

Liquids and the DVD player

Keep all liquids, including beverages and cleaning liquids, away from the DVD player. Liquids inside the player can damage the electronics, and result in electrical shock or fire. If the unit or the remote control should become wet, turn off all power and contact an authorized Rosen/necvox dealer to have the system inspected.

Servicing the DVD player

This unit uses a precision mechanism. In the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

Do not attempt to open the unit or the remote control. The internal parts are not serviceable by the user. Opening any of the components will void the warranty. THIS IS A CLASS I LASER PRODUCT, USING A LASER WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF IMPROPERLY DISASSEMBLED. All service should be performed by authorized Rosen service centers or other qualified service personnel.

CAUTION!

Changes or modifications to this product not approved by the manufacturer will void the warranty and will violate FCC approval.

Temperature and Moisture

If the player is used while the interior of the vehicle is very cold, condensation may form on the disc or on the internal optical pickup system and prevent proper playing of the disc. If you suspect that condensation is an issue, eject the disc and inspect the playing surface. If necessary, remove the condensation with a clean soft cloth as described above. If you still experience problems with playback, you will need to wait for approximately one hour to allow the DVD player to warm up, and for the condensation to evaporate. If playback issues continue, please see your authorized Rosen/necvox dealer.

DISCS PLAYED BY THE UNIT

Discs Compatible with the R5505 and R5506

DVD, Video CD (VCD), CD/CD-R, and MP3 discs are compatible with the unit. The identifying logo and description of each disc type is given below.



DVD

12 cm disc/8 cm disc
(single-sided disc only)



Video CD

12 cm disc/8 cm disc



CD/CD-R, MP3

12 cm disc/8 cm disc

DVD Regions

This digital media 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 player (Region 1), this player will not be able to play the DVD disc. Some DVD discs are manufactured to operate in “all” zones, and those discs are compatible with this DVD player.

Region Icons:



Discs Incompatible with the R5505 and R5506

The following disc types are incompatible:

- DVD-ROM
- DVD-R/DVD-RW/DVD-RAM
- Photo CD
- CD-ROM (Excluding most CD-Recordable discs using MP3 or CD-A formats)
- CD-Audio manufactured with certain copy protection methods
- Any DVD with a Region number other than “1” and “ALL”

USING THE DVD PLAYER

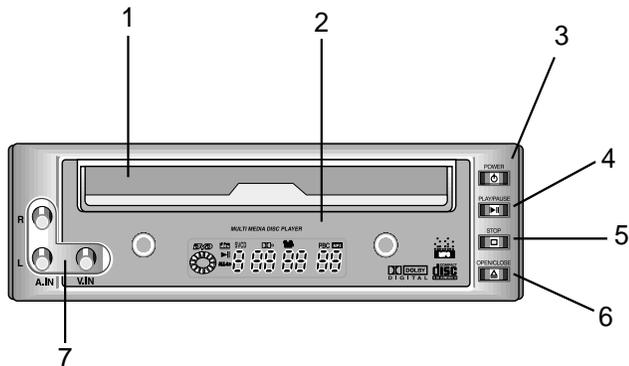
In order to operate the player, the vehicle ignition key switch must be in the ACC or engine ON position.



WARNING!

To prevent the battery from going dead, operate this unit with the engine running, if possible.

Front-Panel Controls



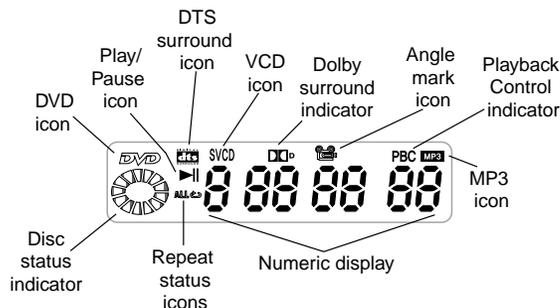
- 1 Disc loading drawer
- 2 Front-panel display
- 3 **[POWER]** button
- 4 **[PLAY/PAUSE]** button
- 5 **[STOP]** button
- 6 **[OPEN/CLOSE]** button
- 7 A/V auxiliary inputs

The **[POWER]** button turns the DVD player on and off. The **[POWER]** button on the remote can also turn on the unit.

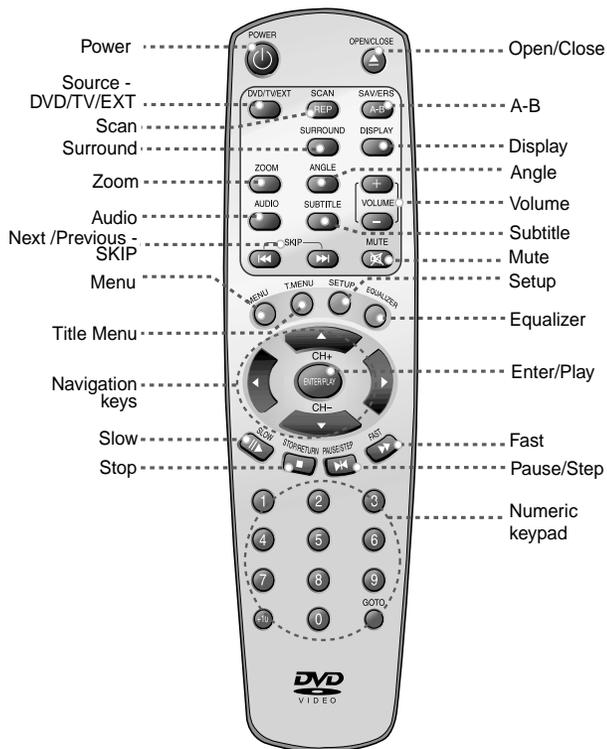
The **[OPEN/CLOSE]** button operates the disc loading drawer.

For information on using the rest of the front-panel controls, please see the sections describing disc playback.

The **front-panel display** provides basic information about the status of the DVD player. Please note that essential information about using the unit will be displayed on the video screen connected to the unit, and initial setup of the DVD player cannot be completed without an operating video monitor providing this on-screen display of menus and settings. *Whenever the term “on-screen display” is used, it refers to the video monitor display, not the front panel display.*



THE REMOTE CONTROL



Using the Remote Control

Aim the remote control towards the IR receiver on the front panel. The remote control can operate at a 30-degree angle from the front of the unit.

If you try to perform an action that is not permitted at the moment, the DVD player displays the following symbol on the screen:



This is typically displayed if a key is pressed during disc loading or ejecting, during the introduction section of a disc, or if you attempt to access certain sections of the Setup menu while the disc is in Play, Pause, or "pre-stop" mode. Also, this symbol will be displayed whenever the loaded DVD disc disallows the attempted action.

DVD/VCD/CD-AUDIO PLAYBACK

Inserting a DVD/VCD/CD

- 1 Turn the vehicle's ignition key to the ACC or ON position.



ACC or engine
ON position

- 2 Press either the **[POWER]** button on the front panel or the **[POWER]** button on the remote control.
- 3 Press the **[OPEN/CLOSE]** button. Remove any disc already in the tray, and gently place a disc in the tray label-side up.
- 4 Press **[OPEN/CLOSE]** or **[PLAY]**.

Disc Playback

DVD playback will often begin automatically when the disc is inserted. With some DVD discs, you will need to press **[ENTER/PLAY]** to begin playback.

CD-Audio discs will begin playback automatically.

CDs with MP3 files may require you to navigate the file structure menu. For more information, see *"MP3 Playback."*

Stopping Playback

There are two ways to stop playback:

- Pressing **[STOP]** **once** will stop playback, and the DVD player will store the location last played on the disc. Playback can be resumed at the same point on the disc by pressing **[PLAY]**.
- Pressing **[STOP]** **twice** will stop playback and clear the R5505's memory of the last point played on the disc. Pressing **[PLAY]** at this point will cause the DVD player to begin playback from the beginning of the disc.

Selecting a Track or Chapter

Moving to the Next Track or Chapter

Press the **[SKIP forward]** button during playback. The next track or chapter will be selected.

Moving to the Previous Track or Chapter

Press the **[SKIP back]** button during playback. The first time this button is pressed, playback of the current track or chapter will restart from the beginning. Pressing this button again will cause the previous track or chapter to be played.

Fast Searching During Playback

Press **[>>]** and **[<<]** during playback to rapidly search for a particular section of a DVD or CD. Each time a fast-search button is pressed, the speed of the fast search changes as follows:

Standard Speed – 2X Standard Speed – 4X – 6X – 8X – Back to Standard Speed.

Pausing Playback

Press **[PLAY/PAUSE]** - disc playback will pause, and the frame being displayed will remain on the screen. Press **[PLAY/PAUSE]** again to return to normal playback.

Repeat Mode

Press the **[REPEAT]** button to select from the following repeat modes:

Repeat 1 - Repeat - Repeat Off.

With DVD playback, pressing the **[REPEAT]** button once causes the current chapter to be replayed. Pressing it twice enables the DVD disc to be continuously replayed.

With CD playback, pressing the **[REPEAT]** button once causes the current track to be replayed. Pressing it twice enables the disc to be continuously replayed.

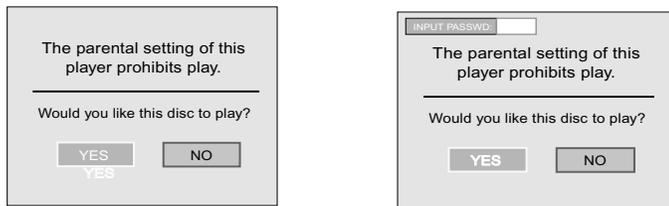
Viewing Angles

The Angle Mark appears on the front-panel display and on the on-screen display during scenes that offer multiple viewing angles. (Not all DVD discs support this function.) Use the **[ANGLE]** button to select from the various angles available. To conceal the Angle Mark, please see the “*Setup*” section.



Parental Control

Parental Control allows authorized users to select an upper limit to film ratings that can be played. If a DVD is inserted that exceeds that rating, the following screen appears:



In order for the film to play, the viewer must select “Yes,” and then the four-digit numeric “password” must be entered.

The factory default password is 3308. The password can be changed—see section “Setup.” The film ratings allowed are also selected in the “Setup” section.

Notes:

- To change the film rating setting, the password must be used.
- The DVD player determines the correct film ratings to use based on the country selected in the “Locale” setting—see section “Setup.”
- Not all DVD titles support this feature.

WATCHING BROADCAST TELEVISION

Using the TV Tuner in the R5505

The R5505 has a built-in TV tuner. With an optional antenna (not included), broadcast television can be received and viewed on the monitor connected to the R5505.

Use the [DVD/TV/EXT] button to select TV. Use the [▲] and [▼] buttons to change channels.

Use the [REP/SCAN] button to scan the stored stations.

Use the [A-B/SAV/ERS] button to store stations, and to erase stations which have been stored.

Note:

- *Television reception is greatly influenced by terrain, atmospheric conditions, and the location of the receiver. When viewing broadcast television in a moving vehicle, various types of interference are often experienced. This is inherent in the nature of analog broadcast television (and why cable was invented!).*

MP3 PLAYBACK ON CD-R DISCS

MP3 Disc Recording and File Extensions

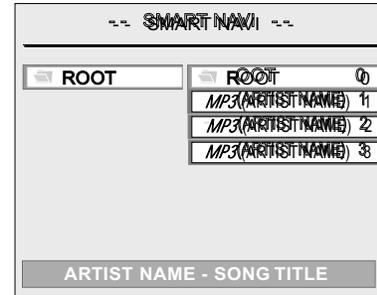
Always add a file extension “.MP3” or “.mp3” to an MP3 file by using single-byte letters. If you add a different file extension, or forget to add the file extension “.MP3” or “.mp3,” the file cannot be played. In addition, if you use upper case and lower case letters (capital and small letters) mixed together for file extensions, normal play may not be possible.

Notes:

- *This player cannot play back a disc recorded on a CD-RW unit.*
- *Some CDs recorded in CD-R mode may not be usable.*
- *Files without MP3 data will not play.*

MP3 Playback

When a disc with MP3 files is inserted, the SMART NAVI screen will appear. Each folder and file will be shown (the order may be slightly different than that on your PC). Navigate the files and folders using the navigation arrow keys, and select a file or folder to be played by using the **[ENTER]** button. To move to the next file or the previous file, use the **[SKIP]** buttons.



Three repeat modes are available for MP3 use:

- NOREPEAT
- REP – ONE repeats the current file
- FOLDER REP repeats the current folder

To conceal the SMART NAVI screen, see “Setup.”

Supported MP3 File Formats

- ISO9660, level 1 and level 2 (the most common type of MP3 format)
- Joliet (a version of ISO9660 that supports longer filenames)
- Romeo (a format used by some CD-creating software)

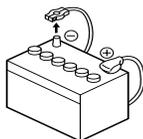
Installation and Wiring

1. Before Starting

Read these instructions and the following precautions carefully.

WARNING!

Be sure to disconnect the battery (-) terminal before starting. This is to prevent short circuits during installation.



Precautions

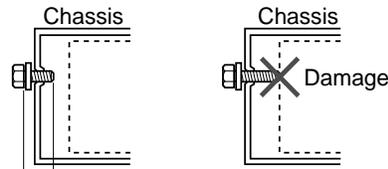
- This unit is exclusively for cars with a negative ground, 12V power supply.
- Do not open the case. There are no user-serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized Rosen service center.
- Use a soft, dry cloth to clean the case. Never use a rough cloth, thinner, benzene, alcohol, or other solvent. For tough dirt, apply a small amount of cold or warm water to a soft cloth and gently wipe.

2. Package Contents

- Disc player unit
- IR Remote control
- 4-pin Power Supply harness
- RCA Audio Cable
- Additional IR Receiver (with cable)
- Installation Brackets and Assorted Hardware
- Owner's Manual / Installation Guide
- Warranty Card

3. Installation Requirements

- 1 Use the enclosed screws for installation. Using other screws can cause damage and void the warranty.



4. Installing the DVD player

Mounting the DVD player

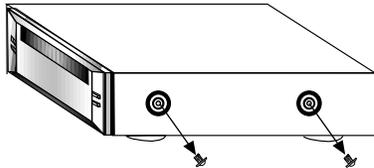
WARNING!

Always use great care when attaching anything to a vehicle! Visually inspect all sides of any potential screw location, to insure no damage will occur. If you have questions about this process, see your authorized Rosen dealer.

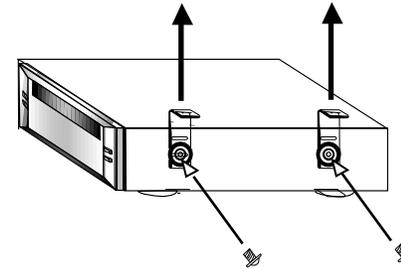
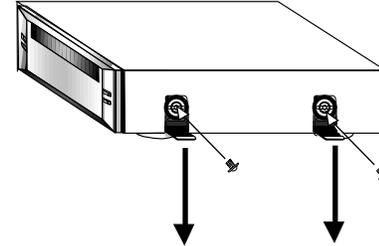
CAUTION!

Do not overtighten the screws on uneven surfaces! This can cause damage to the unit. If an even mounting surface cannot be found, fabricate a flat panel, mount the unit to it, and mount that panel to the vehicle

First, temporarily remove the Phillips side screws from the unit as shown.



Next, use these screws to attach the mounting brackets to the unit. Depending on the installation location, you will orient them either **up** or **down**.



Finally, attach the mounting brackets to the mounting surface in a safe and secure fashion.

Wiring the DVD player

Read the following precautions before wiring your system.

- Disconnect the negative battery terminal before making any wiring connections.
- Be particularly careful where you route wires. Keep them away from the engine, exhaust system, etc. Heat may damage wires.
- If the fuse should blow, make sure all connections are correct and no wires are damaged before replacing the fuse. Always use fuses that are the same amperage value as the original. When replacing a fuse, never let the battery side touch any metal part or any other wire.

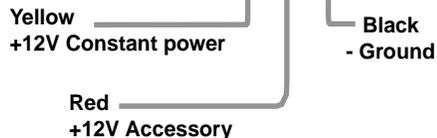
WARNING!

Not all Rosen and Rosen/necvox products use identically-wired four-pin power harnesses! ONLY use the four-pin power harness supplied with this unit! Use of any other four-pin harness may cause failure NOT covered by the manufacturer's warranty!

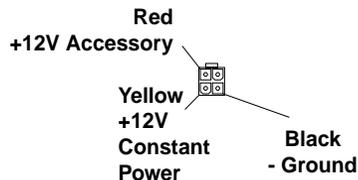
Power Harness Connections

Wire Color Codes

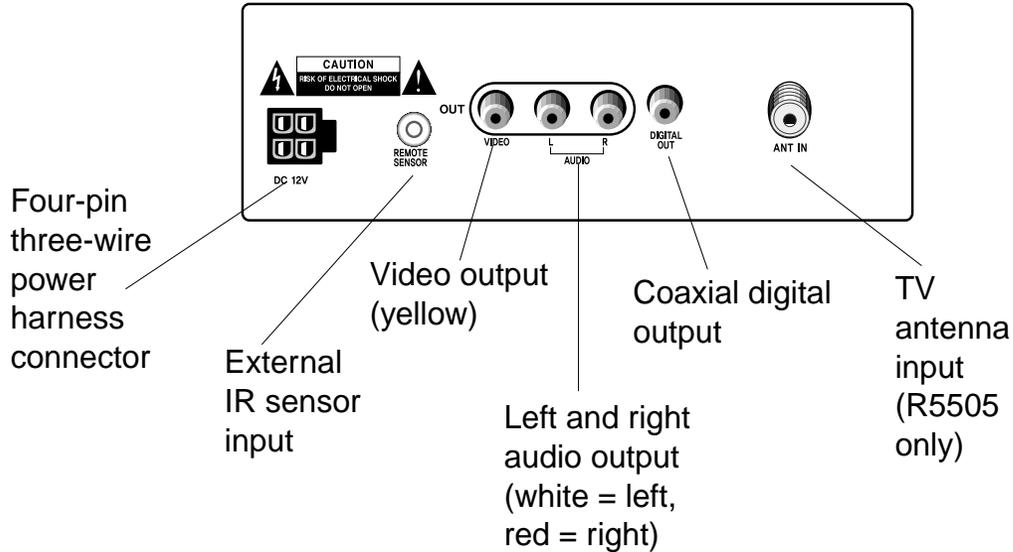
Note: Connect using proper fusing with 3A fuses.



Wire side of Power Connector



Rear Panel Connections



SETUP

TYPICAL SETUP AND CONFIGURATION

The DVD player is very flexible. For more advanced setting options, please see the “Setup Options List” at the end of this section.

The unit is shipped with the following configuration:

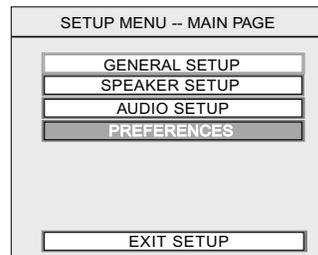
- Standard 4:3 aspect ratio format output
- Automatic NTSC/PAL output switching
- Analog stereo audio, digital audio output off
- All language options set to English
- Parental control off, and default password of 3308.

Changing Settings

The following sections explain how to customize various features of the DVD player.

To change settings:

- 1 Press **[SETUP]**.
- 2 Use the **[▲]** and **[▼]** buttons to highlight a selection.
- 3 Press the **[ENTER]** button to confirm your selection.

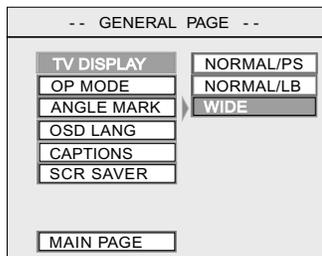


If you try to perform an action that is not permitted (such as accessing the Preferences menu while a disc is playing), the on-screen display will use the following symbol:



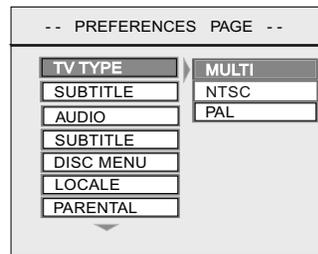
Changing the Aspect Ratio Mode

To change the aspect ratio mode, select GENERAL, and then select TV DISPLAY. For widescreen (16:9) monitors, select WIDE. For standard monitors and letterbox viewing (black bars on the top and bottom of the screen, but the entire image preserved), select NORMAL/LB. For standard 4:3 monitors and a full-screen image, but with the edges variably cropped to fit (“pan-and-scan” mode), select NORMAL/PS.



Changing the Video Output Mode

To change the video output mode, select PREFERENCES, and then select TV TYPE. The default is MULTI. If you experience problems playing a PAL disc on your NTSC monitors, select NTSC. If you are using European-spec PAL monitors exclusively, select PAL.

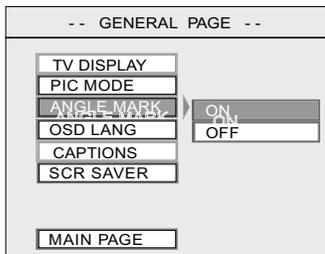


Note:

- The default “MULTI” will automatically output NTSC video from NTSC discs, and PAL video from PAL discs. Many video monitors can automatically handle either type of video signal. NTSC is the North American standard, and the only type of disc many North American users will encounter.

Concealing the “Angle Mark”

To display or conceal the “angle mark,” which appears during scenes that support the multiple-viewing-angle feature, select GENERAL and ANGLE MARK.

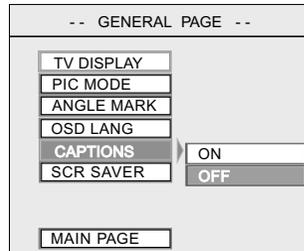


Activating Captions and Subtitles

To enable or disable captions or subtitles, select GENERAL and CAPTIONS.

Note:

- If CAPTIONS is set to OFF, the **[SUBTITLE]** button will be defeated from working. If SUBTITLE OFF is selected under Preferences – Audio, then the **[SUBTITLE]** button can still enable subtitles during playback, as long as CAPTIONS is set to ON.

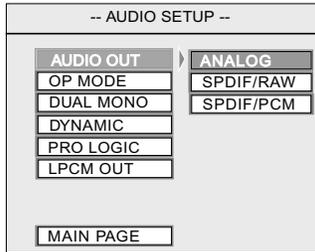


Activating the Digital Output

To turn on the digital output, select AUDIO and AUDIO OUT.

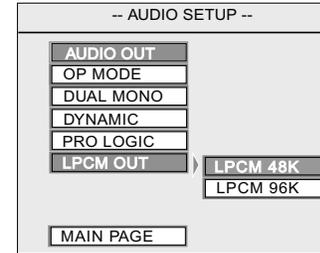
Note:

- Only enable the digital output when a digital audio processor is in use, since enabling it disables the analog audio output on the red and white RCA jacks. Note that some digital audio processors will require you to select an LPCM output frequency.



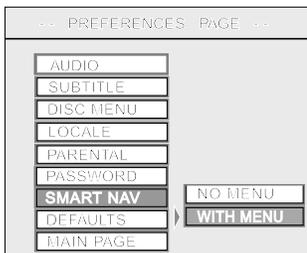
Selecting an LPCM Output Frequency

To select an LPCM output frequency (when a digital audio processor is in use), select AUDIO and LPCM OUTPUT.



Deactivating the “Smart Nav” On-Screen Menu Display

To play MP3 discs without the “Smart Nav” on-screen menu display, select PREFERENCES, then SMART NAV.



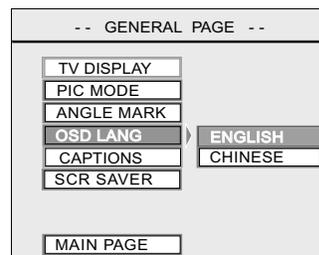
Changing Language Settings

Several language settings can be customized on the R5505.

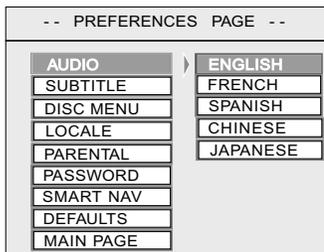
Notes:

- *Not all language settings are supported by all discs.*
- *The languages supported by the DVD player vary by individual option setting.*

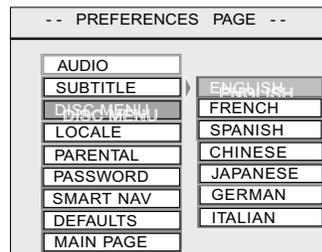
To change the on-screen display language, select GENERAL and OSD LANG.



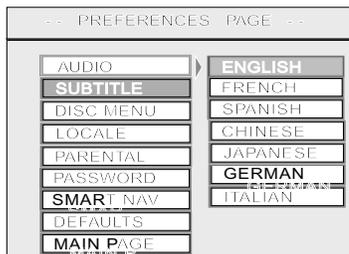
To change the soundtrack language, select PREFERENCES and AUDIO.



To change the disc menu language, select PREFERENCES and DISC MENU.



To change the subtitle or caption language, select PREFERENCES and SUBTITLE.



Setup Options List

The factory default options are given in bold type.

GENERAL PAGE

TV DISPLAY: **NORMAL/PS**, NORMAL/LB, WIDE.

PIC MODE: **AUTO**, HI-RES, N-FLICKER

ANGLE MARK: **ON**, OFF

OSD LANG: **ENGLISH**, CHINESE

CAPTIONS: **ON**, OFF

SCRN SAVER: **OFF**, ON

SPEAKER SETUP

DOWNMIX: LT/RT, **STEREO**

AUDIO SETUP

AUDIO OUTPUT: **ANALOG**, SPDIF/RAW, SPDIF/PCM

OP MODE: **LINE OUT**, RF REMOD

DUAL MONO: **STEREO**, L-MONO, R-MONO, MIX-MONO

DYNAMIC: OFF to **FULL** (eight steps)

PRO LOGIC: **OFF**, ON, AUTO

(AUDIO SETUP CONTINUED)

LPCM OUTPUT: **LPCM 48K**, LPCM 96K

PREFERENCES PAGE

TV TYPE: **MULTI**, NTSC, PAL

AUDIO: **ENGLISH**, FRENCH, SPANISH, CHINESE, JAPANESE

SUBTITLE: **ENGLISH**, FRENCH, SPANISH, CHINESE, JAPANESE, OFF

DISC MENU: **ENGLISH**, FRENCH, SPANISH, CHINESE, JAPANESE

LOCALE: CHINA, FRANCE, HONG KONG, JAPAN, TAIWAN, GBR, **USA**

PARENTAL: **OFF**

PASSWORD: **3308**

SMART NAV: **ON**, OFF

DEFAULTS: RESTORE FACTORY SETTINGS

TROUBLESHOOTING

“Tinny” sound or low-level sound.

Check the Volume setting.

Check the “Downmix” setting in the SETUP menus and ensure that it is set to “Stereo,” not “LT/RT.”

No sound

Check the Mute function on the remote control.

Is the Analog audio output turned off? Check the Setup Menu under Audio, Audio Out. Using the Digital output defeats the Analog audio output.

Picture distorts, “rolls”, appears black and white.

Check that the TV Type setting is correct for the monitors being used. PAL video often “rolls” on NTSC monitors.

With a widescreen 16:9 monitor, I have black bars on the top and bottom of my screen.

Change the TV Display mode to “Wide.”

SPECIFICATIONS

Supply voltage: 12V DC Nominal, 11-16V operating voltage*

Temperature: 0° to 50° Celsius*

Current consumption: Less than 2A

Video:

Television System: NTSC/PAL

Aspect ratio: 4:3, 16:9

TV encoder resolution: 10-bit DA converter

Video Signal level: 1V peak-to-peak

Discs played:

DVD video discs—

5" (12 cm) single-sided, single and double-layer

3" (8 cm) single-sided, single and double-layer

Compact discs (CD-DA, VIDEO-CD, CD-R)—

5" (12 cm) disc

3" (8 cm) disc

Audio output level: 2V RMS @1kHz

Audio signal output characteristics:

Frequency response: 48kHz sampling : 4Hz~22kHz

96kHz sampling : 4Hz~44kHz

** Note: Use of the R5505 or R5506 beyond the safe operating ranges listed can cause temporary or permanent damage to the unit, and such damage may not be covered by the manufacturer's warranty.*

*Please read this entire document carefully
before operating or installing this unit.*



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