

Quick Use Guide

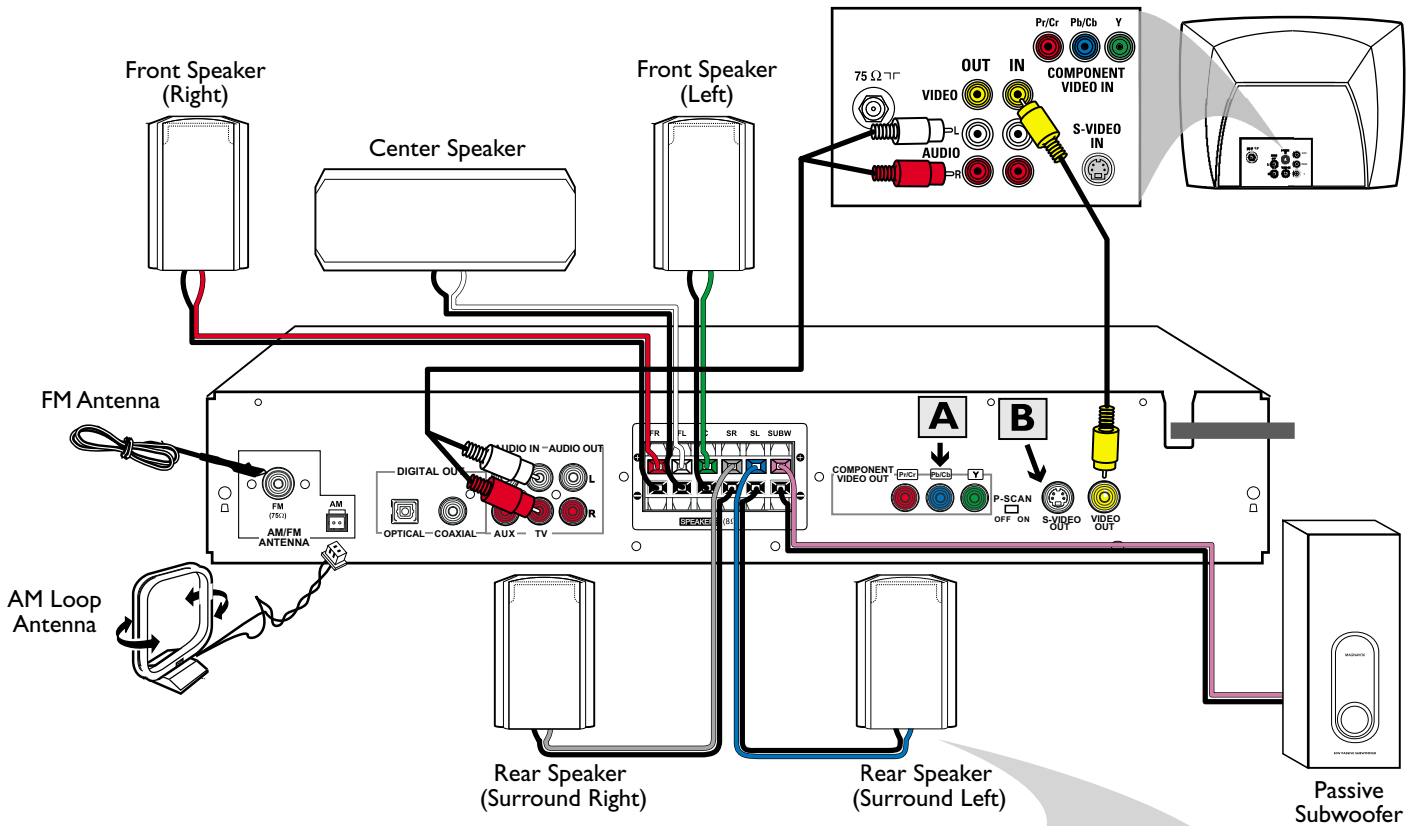
MAGNAVOX

Printed in China

first connect ...



MRD210

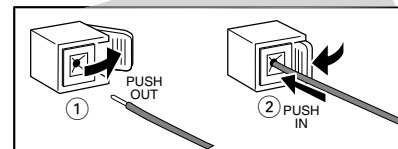


Helpful Hints

To obtain a better picture quality effect, you can choose to connect an extra video connection if your TV has the same input connector: **A** or **B**.

	Use this video cable(s)	If your TV has this video input jack(s)
A		
B	not supplied 	

75 Ω ANTENNA IN If your TV has only a single Antenna In jack, you will need an accessory RF modulator. The RF modulator converts the video from the DVD system so it can play through the TV's Antenna connector. Refer to your owner's manual for proper connection (refer to page 9 in the owner's manual.)



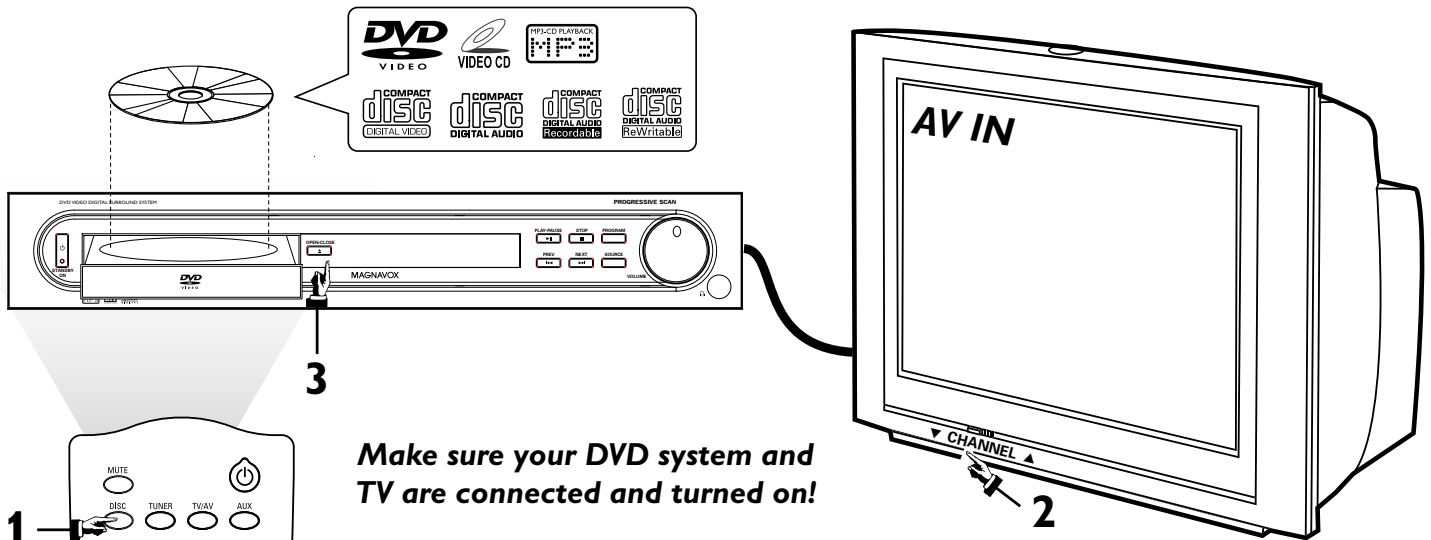
Connecting Speaker Cable

P-SCAN Do not switch the P-SCAN to 'ON' position, unless you have connected the DVD system to a Progressive Scan TV using the Component (Pr Pb Y) video jacks.

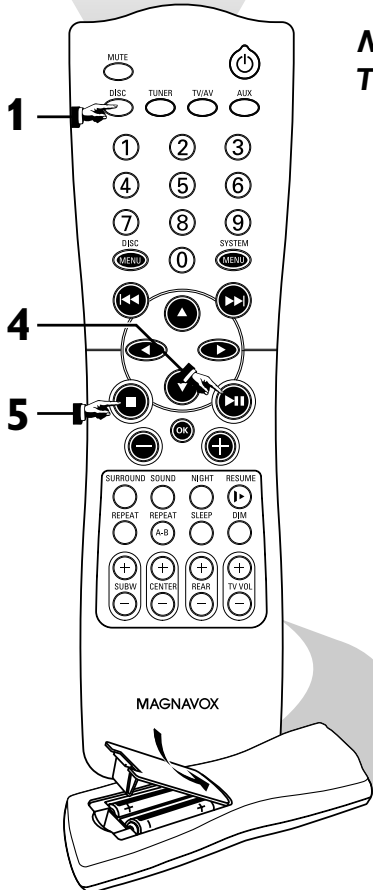
When listening to TV programs, press **TV/AV** button on the remote to set the DVD system to TV/AV mode in order for the sound to be heard.

For connecting to a VCR, see page 9 in the owner's manual for more details.

... then play (see next page)



Make sure your DVD system and TV are connected and turned on!



Playing a disc

- 1 Press DISC on the remote control.**
You can also press the SOURCE button on the front panel until "DISC" appears on the display panel.
- 2 Turn on the TV and select the correct Video In mode.**
You should see the blue Philips DVD background screen on the TV (if no disc in the DVD system).
- 3 Press OPEN•CLOSE ▲ on the front of the DVD system and load a disc, then press the OPEN•CLOSE ▲ again to close the disc tray.**
Make sure the disc label is facing up. For double-sided discs, load the side you want to play face up.
- 4 Playback will start automatically. If not, press ►|| button.**
If a disc menu appears, use ▲▼◀▶ buttons on the remote to make the necessary selection, then press OK to confirm. Or, use the numeric keypad on the remote to select features. Follow the instructions given in the disc menu.
- 5 To stop playback, press STOP ■.**

Region Codes

DVDs must be labeled for ALL regions or Region 1, in order to play on this DVD system.



got sound, no picture!!

Check the AV (Audio/Video) mode on your TV.

- * Usually this channel is between the lowest and highest channels and may be called FRONT, AV IN, or VIDEO.
- * Or, you may go to channel 1 on your TV, then press the Channel down button repeatedly until you see the Video In channel.
- * Or, your TV remote control may have a button or switch that chooses different video modes.
- * Do not use channel 3 or 4 on the TV unless you are using an RF modulator.
- * See your TV manual for more details.

DVD system Video Output Selection for Proper Playback

- 1) Press SYSTEM MENU button.**
The icon will be highlighted in the menu bar on the TV screen.
- 2) Press ▼ button to select the Picture Setup Menu item .**
- 3) Press ► button to enter the Menu.**
- 4) Press ▼ button to select 'VIDEO OUT' and ► button to enter the Menu.**
- 5) Press ▲▼ to select and highlight:**
S-VIDEO - if you use the S-Video connection.
PR PB Y / SCART - if you use the Component Video Pr/Cr Pb/Cb Y
- 6) Press OK button to confirm.**



Note: SCART control not available for use with your DVD system.

Detailed playback features and additional functions are described in the accompanying owner's manual.

User guide

MAGNAVOX
SMART. VERY SMART.

MRD210 DVD VIDEO DIGITAL SURROUND SYSTEM



Need help? Call us!

Magnavox representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!

**CALL US BEFORE YOU CONSIDER
RETURNING THE PRODUCT!**

1-800-705-2000

or

Visit us on the web at www.magnavox.com



Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

• Once your Magnavox purchase is registered, you're eligible to receive all the privileges of owning a Magnavox product.

• So complete and return the Warranty Registration Card enclosed with your purchase at once, and take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your Magnavox warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

Dear Magnavox product owner:

Thank you for your confidence in Magnavox. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the Magnavox "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome – and thanks for investing in a Magnavox product.

Sincerely,




Lawrence J. Blanford
President and Chief Executive Officer


P.S. Remember, to get the most from your Magnavox product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!



Know these *safety* symbols



 This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

 The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

English----- 6

Español -----30

English

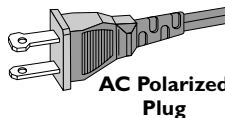
Español

IMPORTANT SAFETY INSTRUCTIONS

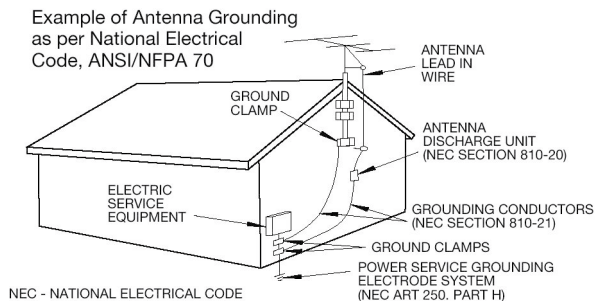
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.




10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



“NOTE TO CATV SYSTEM INSTALLER :
THIS REMINDER IS PROVIDED TO CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.”

11. Only use attachments/accessories specified by the manufacturer.

12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Battery usage **CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:


- Install all batteries correctly, + and - as marked on the unit.
- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Remove batteries when the unit is not used for a long time.

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

17. Power Lines – An outdoor antenna should be located away from power lines.

18. Outdoor Antenna Grounding – If an outside antenna is connected to the product, be sure that the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70 provides information with respect proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

19. **WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

Class II equipment symbol 
This symbol indicates that the unit has a double insulation system

Canada

English:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Laser

Type	Semiconductor laser GaAlAs
Wave length	650nm
Output Power	7mW
Beam divergence	60 degree

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.1. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and**
- 2. This device must accept any interference received, including interference that may cause undesired operation.**

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

NOTE:

PICTURES SHOWN MAY BE DIFFERENT BETWEEN COUNTRIES.

NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

ATENCIÓN

El uso de mando o ajustes o la ejecución de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

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Features

Your complete 7-piece 300-Watt DVD Digital Home Cinema System creates the same dynamic sound qualities that you find in full-fledged cinemas and incorporates some of the best features in home theater technology.

Other features include:

Built-in Dolby® Digital decoder, supporting Dolby® ProLogic and virtual surround

Use the Home Cinema Audio System for a movie-theater surround sound experience.

Additional Component Connections

Connect other audio and audio/visual equipments to the DVD system so you can use the system's surround sound speakers.

Night Mode

Compress the dynamic range, reduce the differences in the loudness of sound outputs. You are able to play the disc at the same volume level without disturbing others.

Parental Control (Rating Level)

Set a ratings level so your children cannot watch a DVD that has a rating higher than you set.

Sleep Timer

Enable the system to switch to standby mode automatically at a preset time.

Progressive Scan

Provides a flicker free image with the highest effect on film based sources. It can double the vertical resolution of the picture to 525 lines every time the picture is refreshed. **To enjoy the full quality potential offered by progressive scan feature, a progressive scan TV is required.**

Supplied accessories

- Remote control with two AA batteries
- AM loop antenna and FM wire antenna
- Audio cable (white/red)
- Composite video cable (yellow)
- Component video cables (red/blue/green)
- Five satellite speakers, including five speaker cables
- Passive subwoofer, including the cable
- This instruction booklet and Quick Use Guide

If any item is damaged or missing, contact your retailer or Philips.

Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet.)

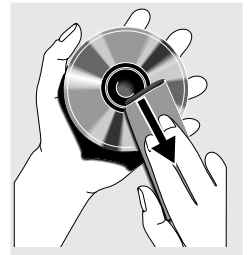
Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

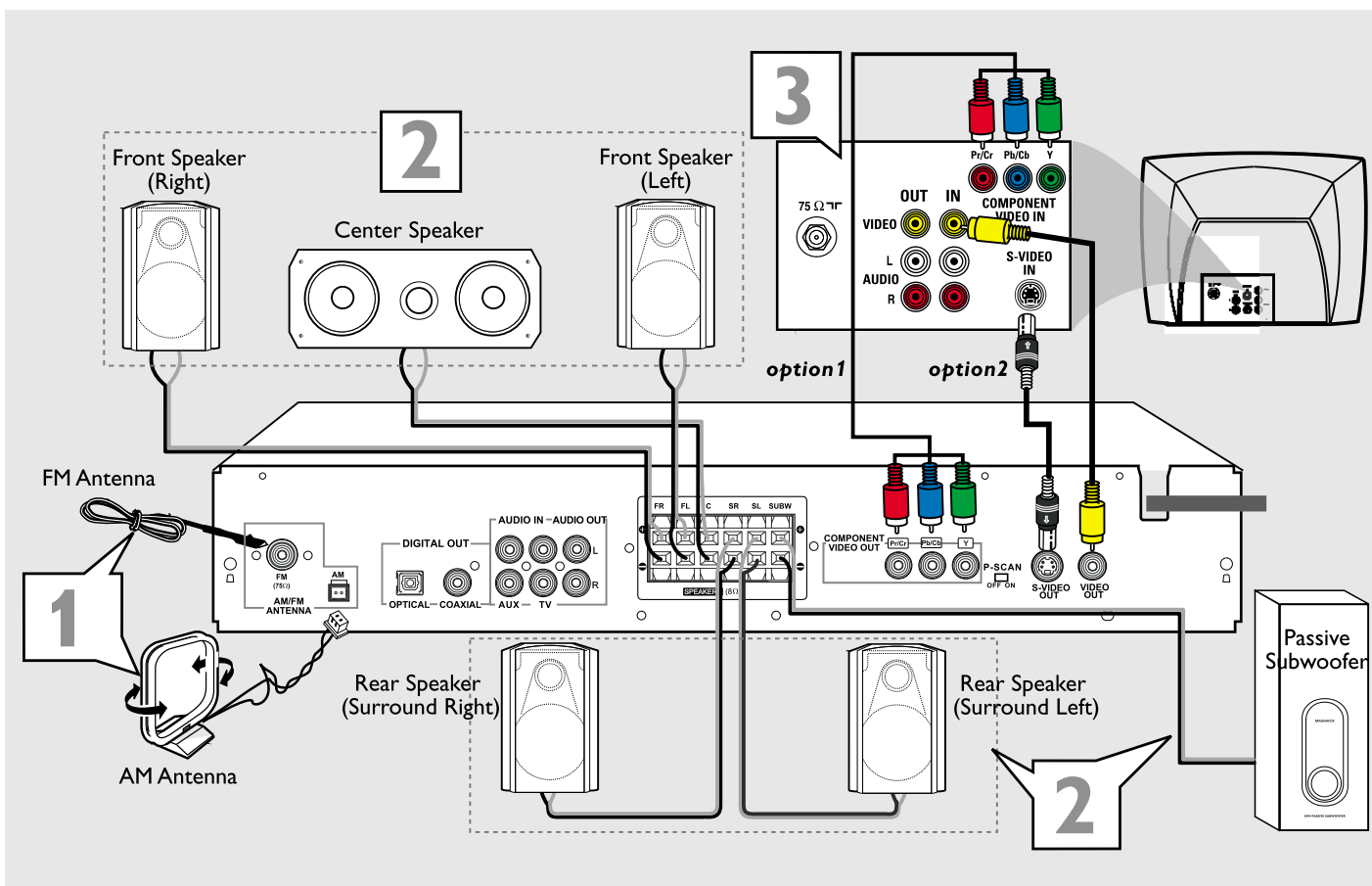
Installation

- Place the player on a flat, hard, stable surface.
- There must be sufficient room in front of the player for the drawer to open.
- In a cabinet, allows about 10cm (4 inches) of free space all around the player for adequate ventilation.
- Do not expose your player to extreme temperatures or humidity.

Maintenance

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out, in a straight line.
- Do not expose the player, batteries or discs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight.) Always keep the disc tray closed to avoid getting dust on the lens.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for analog discs.
- 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.





IMPORTANT!

- Before connecting the AC power cord to the wall outlet, ensure that all other connections have been made.
- Never make or change any connections with the power switched on.
- The type plate is located at the rear or bottom of the system.

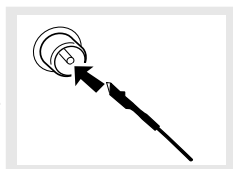
Step 1: Connecting antennas

AM Indoor Loop Antenna

Connect the supplied AM loop antenna to the **AM** jack. Place the antenna on a shelf or attach it to a stand or wall.

FM Indoor Antenna

Connect the supplied FM antenna to the **FM (75Ω)** jack. Extend the FM antenna and fix its ends to the wall.



For better FM stereo reception, connect an external FM antenna using an 75 ohm coaxial cable (not supplied.)

Helpful Hints:

- Adjust the position of the antennas for optimal reception.
- Position the antennas as far as possible from your TV, VCR or other radiation source to prevent unwanted interference.

Step 2: Connecting the speakers and passive subwoofer

Connect the supplied speaker systems and passive subwoofer using the supplied speaker cables by matching the colors of the jacks and speaker cables.

- Press up (or down) the speaker's jack and fully insert the stripped portion of the speaker cable into the jack, then release.

Speakers	⊖	⊕
Front Left (FL)	black	white
Front Right (FR)	black	red
Center (C)	black	green
Surround Left (SL)	black	blue
Surround Right (SR)	black	gray
Subwoofer (SUBW)	black	purple

Helpful Hints:

- Ensure that the speaker cables are correctly connected. Improper connections may damage the system due to short-circuit.
- For optimal sound performance, use the supplied speakers.
- Do not connect more than one speaker to any one pair of + / - speaker jacks.
- Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.

Step 3: Connecting a TV

IMPORTANT!

- There are various ways to connect the system to a TV (as shown in the illustration), it depends on the capabilities of your TV system.
- The progressive scan video quality is only possible through Pr/Cr Pb/CbY output and a progressive scan TV is required.

● To view the DVD playback

Use the video cable (yellow) to connect the system's **VIDEO OUT** jack to the video input jack on the TV.

● You can make an extra video connection with one of the following options if your TV has the same input connector

Option 1

- 1 Use the component video cables (red/blue/green) to connect the system's **Pr/Cr Pb/CbY** jacks to the corresponding Pr/Cr Pb/CbY input jacks on the TV.
- 2 If you are using a **Progressive Scan TV** (TV must indicate Progressive Scan or ProScan capability), set the **P-SCAN** switch (located at rear panel) to "ON." Otherwise, set it to "OFF."

OR

Option 2

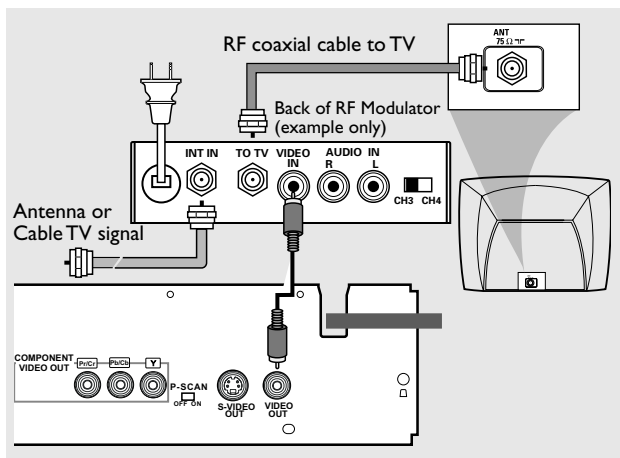
Use the S-video cable (not supplied) to connect the system's **S-VIDEO OUT** jack to the S-Video input jack on the TV.

IMPORTANT!

If **S-VIDEO** or **Component video Pr/Cr Pb/CbY** is used for **DVD playback connection**, the system's **VIDEO OUT** setting will need to be set accordingly. Details are on page 14.

● If your TV only has an RF-style jack (Antenna In or 75 ohm)

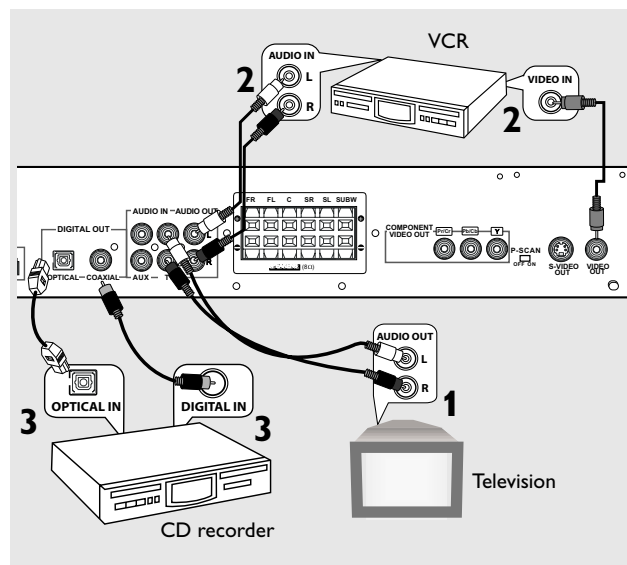
You will need an RF modulator in order to view the playback of DVD discs on your TV. Ask your dealer for details on RF modulator availability and compatibility. Follow the instructions provided with the RF modulator to connect the DVD system to your TV.



Connecting additional equipment

IMPORTANT!

- Some DVDs are copy-protected. You cannot record the disc through a VCR or digital recording device.
- When making connections, make sure the color of cables matches the color of jacks.
- Always refer to the owner's manual of the other equipment for complete connection and usage details.



1) Listening to the playback of other equipment

Connect the system's **AUDIO IN (TV or AUX)** jacks to the **AUDIO OUT** jacks on the other audio/visual device (such as a TV, VCR, Laser Disc player or cassette deck.)

Before starting operation, press **TV/AV** or **AUX** on the remote control to activate the corresponding input source.

2) Using the VCR for recording DVDs

Connect the system's **VIDEO OUT** jacks to the **VIDEO IN** jacks and **AUDIO OUT** jacks to the **AUDIO IN** jacks on the VCR. This will allow you to make analog stereo (two channel, right and left) recordings.

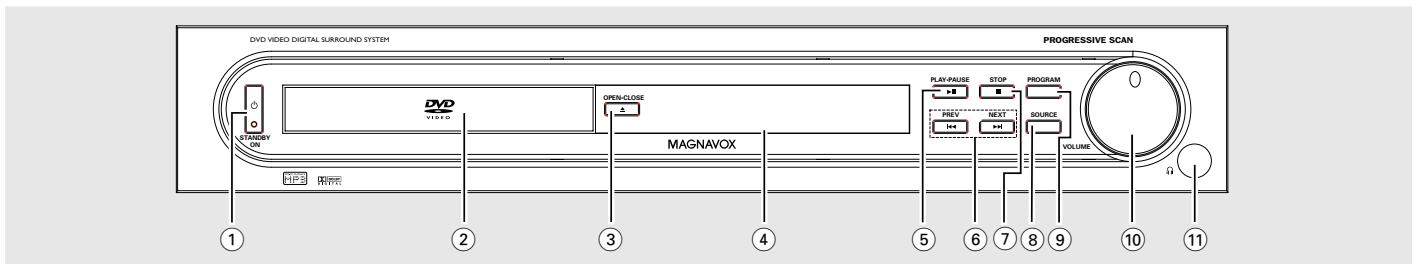
3) Digital Recording (Coaxial or Optical)

Connect the system's **DIGITAL OUT-COAXIAL** jack to the **DIGITAL COAXIAL IN** jack (or **DIGITAL OUT-OPTICAL** to **DIGITAL OPTICAL IN**) on a digital recording device (such as Dolby Digital decoder, CD recorder).

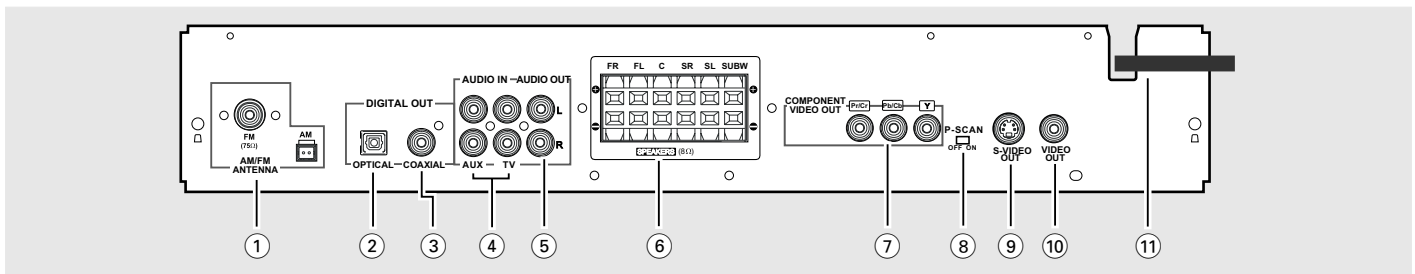
Before starting operation, set the **DIGITAL OUTPUT** according to the audio connection. (See page 14.)

Functional Overview

Front and Rear panels



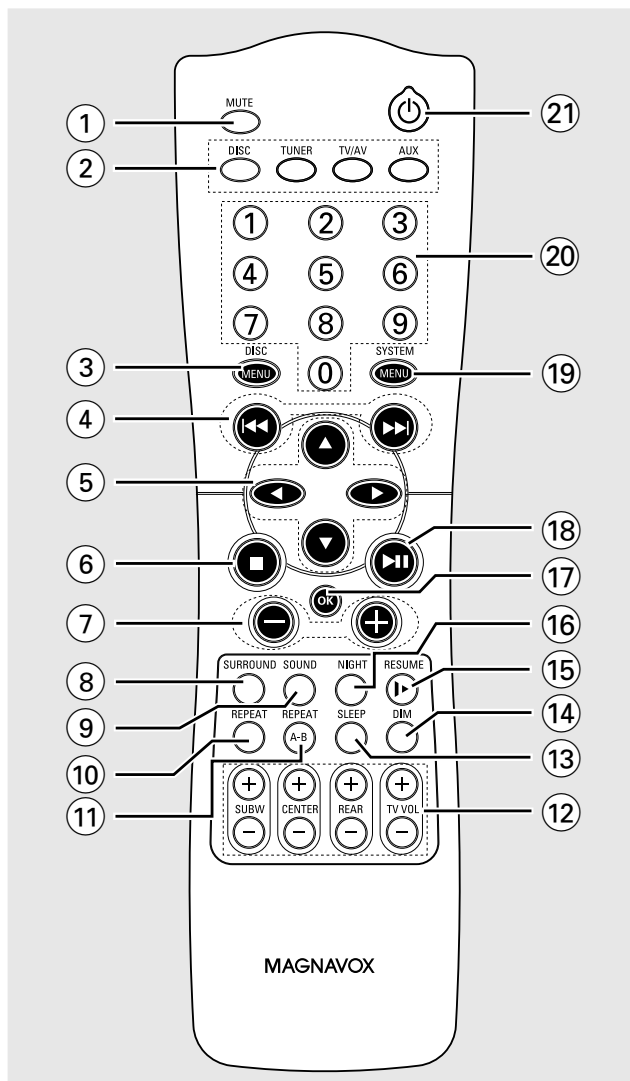
- ① **STANDBY ON**
 - to switch between power on and standby modes.
- ② **Disc Tray**
- ③ **OPEN•CLOSE** (in Disc mode only)
 - to open or close the disc tray.
- ④ **Display screen**
 - to display details for user's information.
- ⑤ **PLAY/PAUSE** (in Disc mode only)
 - to start or interrupt disc playback.
- ⑥ **PREV** / **NEXT**
 - in Disc mode, press to skip to the previous/next chapter/track.
 - in Disc mode, hold down to fast reverse/forward the disc.
 - in Tuner mode, to tune to a lower or higher radio frequency.
- ⑦ **STOP** (in Disc mode only)
 - to stop playing the disc.
- ⑧ **SOURCE**
 - to select the desired source or external input source (TV/AV, DISC, TUNER or AUX.)
- ⑨ **PROGRAM**
 - in Disc mode, to program disc tracks.
 - in Tuner mode, to program preset radio stations.
- ⑩ **VOLUME**
 - to adjust the master volume.
- ⑪
 - to connect headphones.



- ① **AM/FM ANTENNA**
 - connect to the AM loop antenna or FM antenna.
- ② **DIGITAL OUT-OPTICAL**
 - connect to audio equipment with digital-optical audio input.
- ③ **DIGITAL OUT-COAXIAL**
 - connect to audio equipment with digital-coaxial audio input.
- ④ **AUDIO IN (TV / AUX)**
 - connect to the analog audio outputs of a TV or VCR.
- ⑤ **AUDIO OUT**
 - connect to the analog audio inputs of an external recording device or amplifier.
- ⑥ **SPEAKERS**
 - connect to the front, center, surround speakers and passive subwoofer.
- ⑦ **COMPONENT VIDEO OUT**
 - connect to TV with Pr/Cr Pb/Cb Y inputs.
- ⑧ **P-SCAN OFF/ON**
 - switch on or off progressive scan feature.
- ⑨ **S-VIDEO OUT**
 - connect to a TV with S-video input.
- ⑩ **VIDEO OUT**
 - connect to a TV with video input.
- ⑪ **AC Power Cord**
 - connect to a standard AC outlet.

Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Remote Control



Notes for remote control:

- First, select the source you wish to control by pressing one of the source select keys on the remote control (DISC or TUNER, for example).
- Then select the desired function (▶, ◀◀◀, ▶▶▶ for example).

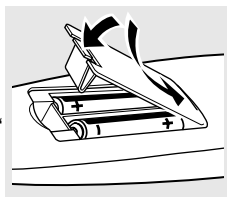
- ① **MUTE**
 - to interrupt or resume sound reproduction.
- ② **SOURCE**
 - to select the desired source (TV/AV, DISC, TUNER or AUX.)
- ③ **DISC MENU (disc mode only)**
 - to enter or exit the disc contents menu.
- ④ **◀◀◀ / ▶▶▶**
 - in disc mode, press to skip to the previous/next chapter/track.
 - in disc mode, hold down to fast reverse/forward the disc.
 - in Tuner mode, to tune to a lower or higher radio frequency.

- ⑤ **▲▼◀▶**
 - in Tuner mode, to select a preset radio station number (◀ or ▶.)
 - to select movement direction in disc contents menu / system menu bar.
- ⑥ **■**
 - to stop playing the disc.
- ⑦ **VOL +/-**
 - to adjust the volume level.
- ⑧ **SURROUND**
 - to select multichannel surround (Dolby Digital or Dolby ProLogic) or stereo sound effect.
- ⑨ **SOUND**
 - to select the various sound effects : CONCERT, DRAMA, ACTION, SCI-FI, CLASSIC, JAZZ, ROCK or DIGITAL.
- ⑩ **REPEAT**
 - to repeat chapter, track or disc.
- ⑪ **REPEAT A-B**
 - to repeat a specific section on a disc.
- ⑫ **SUBW +/-**
 - to adjust the subwoofer's level.
- REAR +/-**
 - to adjust the rear (surround) speakers' level.
- CENTER +/-**
 - to adjust the center speaker's level.
- TV VOL +/-**
 - to adjust Philips television's volume level.
- ⑬ **SLEEP**
 - to set the sleep (auto-off) timer function.
- ⑭ **DIM**
 - to select different brightness for the display screen.
- ⑮ **RESUME**
 - to continue disc playback after an interruption.
- ⑯ **NIGHT (DVD mode only)**
 - to optimize the dynamics of the sound output.
- ⑰ **OK**
 - to enter or confirm the selection.
- ⑱ **▶||**
 - to start or interrupt disc playback.
- ⑲ **SYSTEM MENU (disc mode only)**
 - to enter or exit the system menu bar.
- ⑳ **Numeric Keypad (0-9)**
 - to enter a track/title number of the disc.
 - to enter a number of preset radio stations.
- ㉑ **⏻**
 - to switch to standby mode.

Preparations

Inserting batteries into the remote control

- 1 Open the battery compartment.
- 2 Place the batteries in the compartment with the correct polarity as indicated by “+” and “-” symbols.
- 3 Close the cover.



CAUTION!

- Remove batteries if they are exhausted or if the remote is not to be 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 off properly.

Switching on the system

- 1 After completing all the connections, connect the AC power cord of the player to the power outlet.
 - 2 Press **STANDBY ON** to switch on the last selected source.
 - 3 Press the **SOURCE** button (or **TV/AV, DISC, TUNER** or **AUX** on the remote) to select the input source.
→ The selected source is displayed.
- **For viewing a DVD or VCD disc**, you have to connect a TV (refer to “Connections - Connecting a TV”.) Switch on the TV and set to the correct video in channel (for example, EXT1, EXT2, AV1, AV2.) Refer to your TV instruction manual for details.
→ The default screen appears on the TV.

Setting up the surround sound system

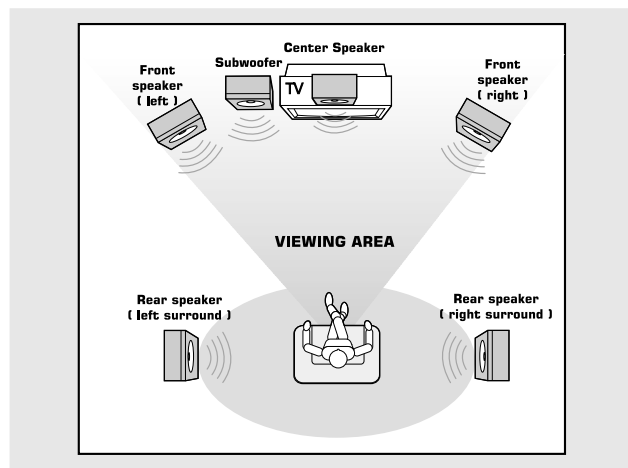
You must connect all the speakers and set up the system properly in order to enjoy the Digital Cinema experience at home (refer to “Connections - Connecting the speakers and passive subwoofer”). You will have the feeling of being in the middle of the action because sound is coming from everywhere around you. The subwoofer can enhance the bass performance of your system dramatically.

IMPORTANT!

Please sit at your usual listening position in order to set up the speaker balance correctly.

Placing the speakers

To obtain the best surround effect, place the speakers as follows.



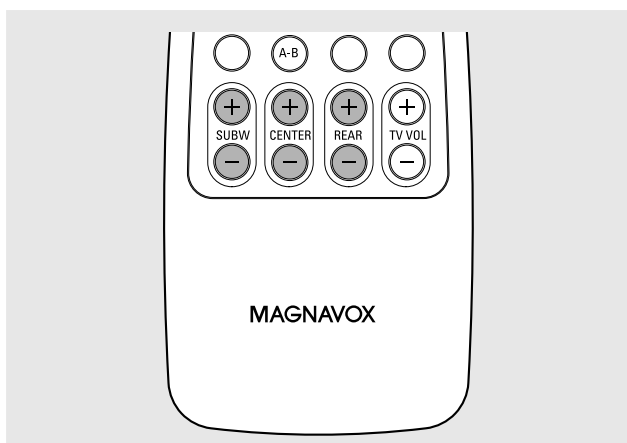
- 1 Place the front left and right speakers at equal distances from the TV and at an angle of approximately 45 degrees from the listening position.
- 2 Place the center speaker above or below the TV so the center channel's sound is localized.
- 3 Place the surround speakers at normal listening ear level facing each other or mounted on the wall.
- 4 Place the subwoofer on the floor near the TV.

Notes:

- To avoid magnetic interference, do not position the front speakers too close to your TV.
- If the rear surround speakers are installed farther away from the listening position than the front and center speakers, it will weaken the surround effect.
- All speakers should be securely installed to prevent accidents and improve sound quality.

Changing the volume level

You can change the speakers' sound distribution to suit your surround sound needs.



- Press **CENTER** + / - to adjust the volume level of the center speaker.
→ "CENT +xx dB" appears.
- Press **REAR** + / - to adjust the volume level of the rear surround speakers.
→ "RE +xx dB" appears.
- Press **SUBW** + / - to adjust the volume level of the passive subwoofer.
→ "SUB +xx dB" appears.

Helpful Hint:

– "xx" denotes the volume level between -15db to 10db.

Activating progressive scan mode

The progressive-scan display presents 60 complete frames per second, rather than the 30 frames per second of interlaced scanning (ordinary normal TV system.) With nearly double the numbers of line, progressive scan offers higher picture resolution and eliminates bothersome motion artifacts those jagged edges on moving objects.

To enjoy the full quality potential offered by progressive scan feature, a progressive scan TV is required.

- 1 Press **STANDBY ON** to switch the system off.
- 2 Slip the **P-SCAN** switch (located at back panel) to "ON" position.
- 3 Press **STANDBY ON** again to switch the system on.

Helpful Hints:

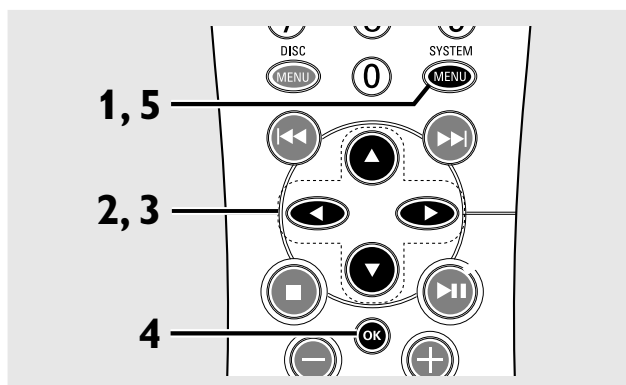
- The progressive scan video quality is only possible through Pr/Cr Pb/CbY video output connection.
- You need to switch the system off before changing the progressive scan mode.

System Setup (DVD)

The system setup is carried out via the TV, enabling you to customize the DVD system to suit your particular requirements. If the preferred options selected are not available on a disc, then the disc's own preference will be used.

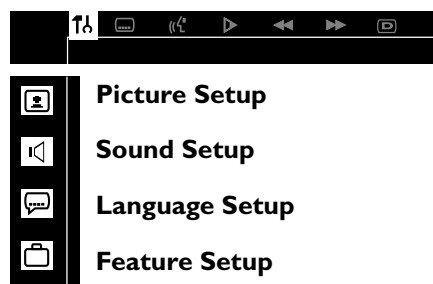
IMPORTANT !

To access the System Setup menu, playback must be stopped.



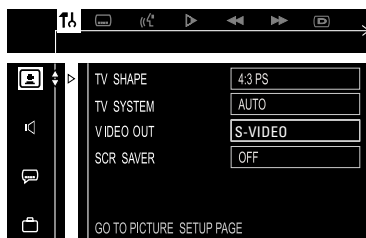
To enter System Setup menu

- 1 In disc mode, press **SYSTEM MENU** on the remote.
→ icon will be highlighted in the menu bar on the TV screen.
- 2 Press ▼ to activate the System Setup menu.
- 3 Use ▲▼ keys to select one of the setup menu options and press ► to enter the menu.



- 4 Press **OK** to confirm your selection.
- 5 To exit the System Setup menu, press **SYSTEM MENU** or **OK**.

Picture Setup

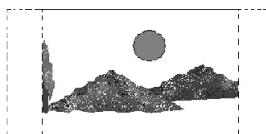


TV SHAPE

Select the aspect ratio of the TV to be connected. If your DVD is not encoded to allow you to change the aspect ratio, TV shape cannot be changed.

4:3 PS (panscan)

Select this if you have a conventional TV set and your DVD is not formatted for widescreen viewing. A wide picture is displayed on the whole TV screen with a portion automatically cut off.



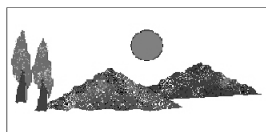
4:3 LB (letterbox)

Select this if you have a conventional TV set and your DVD is formatted for widescreen viewing. Wide bands are displayed on the upper and lower portions of the TV screen.



16:9 (widescreen)

Select this if you have a widescreen TV set (you must also set your widescreen TV to "full size".)



TV SYSTEM

Allows you to select the color system that corresponds to your TV.

AUTO

Select this if the connected TV is multi system. The output format will be in accordance with the video signal of the disc.

NTSC

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

PAL

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

VIDEO OUT

Set the Video Output according to your video connection. This setting is not required if you are using the VIDEO OUT jack (yellow) to connect the DVD system to your TV.

PR PB Y / SCART

Select this if you have connected the DVD system to your TV using the Component Video Out (Pr/Cr Pb/Cb Y) jacks. (SCART - not available for this version)

S-VIDEO

Select this if you have connected the DVD system to your TV using S-Video jack.

SCR SAVER (Screen Saver)

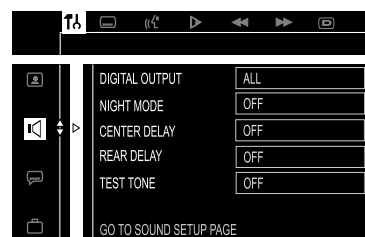
OFF

Select this to disable the screen saver function.

ON

Select this if you wish to dim the TV screen when the disc playback is stopped or paused for more than five minutes. This will prevent your display device from becoming damaged.

Sound Setup



DIGITAL OUTPUT

Allows you to specify the type of digital output suitable for the optional audio equipment that connected through the DIGITAL OUT at the rear of your DVD system.

ALL

Select this if you have connected the digital output (COAXIAL or OPTICAL) to a multichannel decoder receiver.

PCM 96K

Select this if the optional audio equipment is capable of processing digital signal input with sampling rates of 96 kHz.

PCM 48K

Select this if the optional audio equipment is incapable of processing 96 kHz digital signal input. The signal will then be converted to a standard signal with sampling rates of 48 kHz.

OFF

Select this to deactivate the digital output (COAXIAL or OPTICAL.)

NIGHT MODE

Night function can also be accessed via the remote control.

OFF

Select this when you want to enjoy the surround sound with its full dynamic range.

ON

Select this to level out the volume. High volume outputs will be softened and low volume outputs are brought upward to an audible level. This feature is only available for movies with Dolby Digital mode.

CENTER DELAY

If the listening position is closer to the center speaker than the front speakers, you can set the center delay time to improve the surround sound effect.

Options : 5ms, 3ms, 2ms, 1ms or OFF (default setting,)

REAR DELAY

If the listening position is closer to the rear surround speakers than the front speakers, you can set the rear delay time to improve the surround sound effect.

Options : 15ms, 12ms, 9ms, 6ms (default setting,) 3ms or OFF.

TEST TONE (disc mode only)

OFF

Select this to deactivate the test tone.

ON

Select this to activate the test tone. The test signal is generated through the left, center, right, and surround speakers.

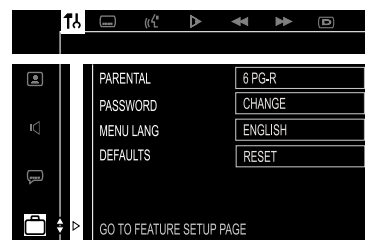
Language Setup



AUDIO / SUBTITLE / DISC MENU

Select your preferred language settings for your DVD (audio language, subtitle language and disc menus) so that the system will automatically switch to the selected language whenever you load a DVD. If the language selected is not available on the disc, the original language designated by each disc will be selected.

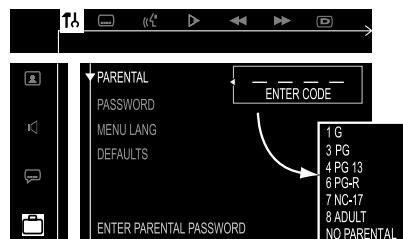
Features Setup



PARENTAL

Enables setting of playback limitation level. Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. The rating levels are from 1 to 8 and are country dependent. You can prevent the playing of certain discs that are not suitable for your children or have certain discs played with alternative scenes.

- 1 Use the **numeric keypad (0-9)** to enter '1234' (default password) when you are asked to enter the four-digit password. You will have to enter the same code exactly twice.



- 2 Use **▲▼** keys to select a rating level.
- 3 Press **OK** to confirm.

Rating explanations

- NO PARENTAL** – It will play all discs.
- 8 ADULT** – Mature material; should be viewed only by adults due to graphic sexual material, violence, or language.
- 7 NC-17** – No children under age 17; not recommended viewing for children under age 17.
- 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.
- 4 PG13** – Material is unsuitable for children under age 13.
- 3 PG** – Parental Guidance suggested.
- 1 G** – General Audience; recommended as acceptable for viewers of all ages.

Helpful Hints:

- Some DVDs are not encoded with a rating though the movie rating may be printed on the disc jacket. The rating level feature does not work for such discs.
- If the player's parental level is set below 8, only discs with a lower or equal level will play. For example, if the player is set to 6, only discs with ratings of 6, 4, 3 and 1 will be played. Higher rated scenes will not be played unless an alternative that has the same rating or lower is available on the disc. For example, consider a disc that generally is suitable for most audiences, and it is rated at level 1 for the most part. However, in the middle, there are also scenes rated at 6 (not suitable for children.)

To enable playback of a higher rated disc or scene than the level set

Go to 'PARENTAL' and enter the four-digit code before resetting the rating level to a higher number.

If you forget the 4-digit code

Press **■** **four times** when prompted for the password code and the system will change back to the default password (1234.)

PASSWORD

To set a new password for the parental control or to change the password.

CHANGE

If you are asked to enter the code for the first time, key in '1234' (default password.) Then enter your new four-digit password code, twice.

MENU LANG (Menu language)

Select the language for on screen display.

DEFAULTS**RESET**

Pressing **▶** on the remote will restore all the items in the setup menu to the original factory setting except for your Parental Control password.

IMPORTANT!

- DVD discs and players are designed with regional restrictions. Before playing a disc, make sure the disc is for the same zone as your player.
- Depending on the DVD or VIDEO CD, some operations may be different or restricted.
- Do not push on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the disc player to malfunction.
- Do not move the disc player during playback, as doing so may damage the DVD system.

Playable discs

Your DVD player is able to play :

- Digital Video Discs (DVDs)
- Video CDs (VCDs)
- Super Video CDs (SVCDs)
- Compact Discs (CDs)
- MP3 discs, Picture (Kodak, JPEG) files on CD-R(W).
 - ISO 9660 format, UDF format
 - Maximum 12 characters display
 - Maximum nested directory is 8 levels
 - The maximum album number is 32
 - The maximum title number is 999
 - Supported sampling frequencies for MP3 disc are : 32 kHz, 44.1 kHz, 48 kHz
 - Supported Bit-rates : 32~256 (kbps) and variable bit-rates
 - MPEG-1 layer 2 and 3 Audio (MP3)



Region Codes

DVDs must be labeled for **ALL** regions or for **Region 1** in order to play on this DVD system. You cannot play discs that are labeled for other regions.



Helpful Hint:

- If you are having trouble playing a certain disc, remove the disc and try a different one. Improperly formatted discs will not play on this DVD system.

Basic playback

- 1 Press **SOURCE** until "DISC" appears on the display panel (or **DISC** on the remote.)
- 2 Press **OPEN•CLOSE ▲** button to open the disc tray and load a disc, then press **OPEN•CLOSE ▲** again to close the tray.
 - Make sure the label side is facing up. For double-sided discs, load the side you want to play face up.
 - There will be a short delay while the player identifies the disc and reads the menu from the disc.
- Some discs will start playing automatically, and others will display the Disc Contents Menu on the TV screen. If the menu is presented, use **▲ ▼ ◀ ▶** keys to highlight your selection and press **OK** to confirm. To select a play option, press **numeric keypad (0-9)**.
- 3 Press **▶||** to start playback.

Helpful Hint:

- If the inhibit icon appears on the TV screen when a button is pressed, it means the function is not available on the disc you are playing.
- You are not able to operate the system using **▲ ▼ ◀ ▶** keys on the remote when playing an VCD with PBC mode on.

To interrupt playback

- Press **▶||**.
 - The picture freezes and the sound will mute.
- To resume playback, press **▶||** again.

To stop playback

- Press **■**.

Skipping to another track/chapter

- Press **◀◀◀** or **▶▶▶** repeatedly during playback to skip backward or forward. Each press will take the disc to the beginning of the current or next track/chapter.

Helpful Hint:

- If the **REPEAT TRACK** mode is active, pressing **◀◀◀** or **▶▶▶** will replay the same track/chapter.

To skip to the beginning of the current track/ chapter during playback

- Press **◀◀◀** once.

To go directly to any track/chapter

- Use the **numeric keypad (0-9)** to enter the number of the desired track/chapter.

Fast Search within a track/chapter

- 1 Hold down **◀◀◀** or **▶▶▶** about **two seconds** to fast reverse or forward the disc.
- 2 To resume normal play, press **▶||**.

Continue playback from the last stop point

- In stop mode and when a disc has not been removed, press **RESUME** on the remote to resume playback from the point at which it stopped.

To cancel the resume mode

- Press **■** again.

Helpful Hints:

- Open the disc tray or disconnect the system from the power supply will cancel the resume option.
- For VCD, the resume option is only possible if the PBC mode is turned on.
- The resume option may not be available on some discs.

Repeat play

You can only select the repeat play mode during playback.

For DVD - Repeat chapter/title/disc

- Press **REPEAT** repeatedly to select the following :
 - "R- I" – repeat chapter.
 - "R-R" – repeat title/disc.

For VCD/CD/MP3-CD - Repeat track/disc

- Press **REPEAT** repeatedly to select the following :
 - "R- I" – repeat the current track.
 - "R-R" – repeat the entire disc.

Helpful Hints:

- Repeat play might not work correctly with some DVDs.
- For VCD, repeat play is not possible during PBC playback.

Repeat A-B

You can play a specific section in a track/chapter repeatedly.

- 1 Press **REPEAT A-B** on the remote at your chosen starting point.
- 2 Press **REPEAT A-B** again at your chosen end point.
 - The passage will now repeat continuously.
- 3 To resume normal play, press **REPEAT A-B** again.

Helpful Hint:

- The section A and B can be set only within the same chapter/track.

Program favorite tracks

You can play the contents of the disc in the order you want by programming the order of the tracks to be played. Up to 99 tracks can be stored.

Helpful Hint:

- Program DVD and MP3-CD is not possible.



Using the display screen

- 1 While playback is stopped, press **PROGRAM** to enter program mode.
 - "P 00:00" appears.
- 2 Use the **numeric keypad (0-9)** to input the track number in the order you want.
 - "FULL" will appear if 99 tracks have been programmed.
- 3 Press **OK** to store the track.
- Repeat **steps 2-3** to store other tracks.
- 4 To start program play, press **▶II**.
- 5 To stop playback, press **■ once**.
- 6 To cancel the program, press **■** again in stop mode.

Using the menu bar

IMPORTANT!

You have to turn on your TV and set to the correct Video In channel (see page 12 - Switching on the system.)

- 1 Stop playback, then press **SYSTEM MENU**.
 - The menu bar will appear across the top of the TV screen.
- 2 Use **▶** keys to select  and press **▼** to enter the program menu.
 
- 3 Use **numeric keypad (0-9)** to enter the disc and track number to be programmed.
- 4 Press **▶II** to start program playback.
- 5 To stop playback, press **■ once**.
- 6 To cancel the program, press **■** again in stop mode.

Playing MP3/Picture disc (Kodak, JPEG)

IMPORTANT!

You have to turn on your TV and set to the correct Video In channel (see page 12 - Switching on the system.)

MP3 / JPEG Picture disc

- 1 Load an MP3/Picture (JPEG) disc.
→ The disc reading time may exceed 30 seconds due to the complexity of the directory/file configuration.
- 2 Playback will start automatically.
→ The album/picture menu will appear on the TV screen. If not, press **DISC MENU** on the remote.
- 3 Press **▲▼◀▶** to select a desired album, then press **OK** or **▶||** to confirm (for MP3 disc only).
→ The title menu appears on the TV screen.
- 4 Press **▲▼◀▶** to select a desired title, then press **OK** or **▶||** to start playback.
- You can also use the **numeric keypad (0-9)** to enter your choice.
- 5 To stop playback, press **■**.

Kodak Picture disc

- 1 Load a Kodak Picture disc.
→ The disc reading time may exceed 30 seconds due to the complexity of the directory/file configuration.
- 2 Playback will start automatically.
- 3 Press **■**.
→ 9 thumbnail pictures will appear on the TV.
- 4 Press **◀◀** or **▶▶** to view the previous/next page (if available).
- 5 Press **▲▼◀▶** to move within the menu and press **OK** to select the desired picture to play.
- 6 Press **▶||** will start the slide-show playback.

During playback, you can;

- Press **◀◀** / **▶▶** to select another title/picture in the current folder.
- Use **◀▶▲▼** keys on the remote to rotate or flip the picture files.
- Press **▶||** to pause/resume playback.

If the MP3-CD menu is switched off

- You can only play the existing selected title by pressing **▶||** button. While in playback mode, press **◀◀** / **▶▶** to select the previous/next title.
→ The title number will appear.

Notes:

- Due to the recording nature of Digital Audio MP3 (DAM), only digital audio music will play.
- It is normal to experience an occasional “skip” while listening to your MP3 discs.
- Some files on Kodak or JPEG discs may be distorted during playback due to the configuration and characteristics of the disc.
- For multi-session discs with different formats, only the first session will be available.
- **DISC MENU** key function is not available during Kodak picture disc playback.

Special DVD/VCD/SVCD features

A number of operations can be carried out directly via the multiple menu bars on the TV screen without interrupting disc playback.



From the left,
SETUP MENU → SUBTITLE → LANGUAGE → SLOW
→ FAST REVERSE → FAST FORWARD → STATUS



From the left,
TITLE SEARCH → CHAPTER SEARCH → TIME
SEARCH → ZOOM → ANGLE → STEP →
PBC ON/OFF



From the left,
PROGRAM


IMPORTANT!

Some operations may be different or restricted, depending on the disc format. Refer to the jacket or case of the disc you are playing.

- 1 In disc mode, press **SYSTEM MENU**.
→ The menu bar will appear across the top of the TV screen.
- 2 Press **◀** or **▶** to move through the menu bar.
- 3 Press **▼** to select the highlighted icon and use **▲▼** keys to select your preferred option.
- 4 Press **OK** to confirm a highlighted selection.
- 5 To exit, press **SYSTEM MENU** or **OK**.


Changing subtitle language

This operation works only on DVDs with multiple subtitle languages.

- Select  from the menu bar and press ▼ key to select the desired language.

Changing sound track language

This operation works only on DVDs with multiple soundtrack language.

- Select  from the menu bar and press ▼ key to select the desired language.

For VCD/SVCD:


- Press ▼ to select the desired audio channels for sound :
LEFT VOCAL → RIGHT VOCAL → MONO LEFT
→ MONO RIGHT → STEREO → LEFT VOCAL

Helpful Hint:

– When the desired language is not selected even after pressing the button several times, it means the language is not available on the disc.

Playing in slow motion mode



- 1 Select  from the menu bar and press ▼ key to select the required slow motion speed :
SF 1/2 → SF 1/4 → SF 1/8 → SR 1/2 → SR 1/4 →
SR 1/8 → SLOW OFF

(SF) = slow forward
(SR) = slow reverse

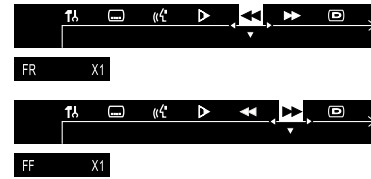
For VCD/SVCD:



- 1 Press ▼ key to select the required slow motion speed :
(forward): SF 1/1 → SF 1/2 → SF 1/3 → OFF
- 2 To resume normal play, press ►||

Helpful Hints:

– The sound will be muted during slow-motion play.
– The slow-motion playback function is not possible on CD and MP3-CD.

Searching for a particular passage



- 1 Select  or  from the menu bar to select fast reverse search or fast forward search respectively.
- 2 Press ▼ key to select the required search speed :
(reverse): FR X2 → FR X4 → FR X6 → FR X8 → PLAY
(forward): FF X2 → FF X4 → FF X6 → FF X8 → PLAY


For VCD/SVCD:

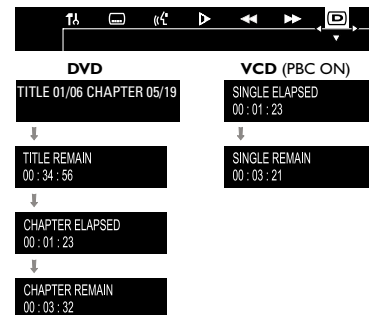
- 2 Press ▼ key to select the required search speed :
(reverse): FR X1 → FR X2 → FR X3 → FR X4 → PLAY
(forward): FF X1 → FF X2 → FF X3 → FF X4 → PLAY
- 3 To resume normal play, press ►||

Helpful Hint:

– The sound will be muted during fast reverse or forward search.



Display the disc information during playback

- Select  from the menu bar and press ▼ key to select the following display informations :



Moving to another title/chapter

Some discs may contain more than one title or chapter. If the disc has a title or chapter menu recorded on it, you can start playback from the selected item.

- 1 Select  (title) or  (chapter) from the menu bar.
- 2 Use **numeric keypad (0-9)** to select a desired title/ chapter number and press **OK** to start playback.

Helpful Hint:

– Selecting a title or chapter might not be possible on certain discs.

Playback from a selected point (DVD only)

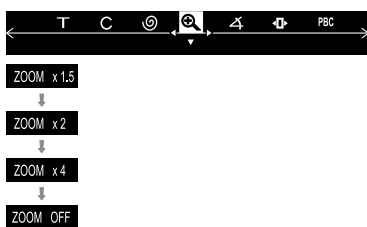
This function allows you to start playing at any chosen time on the disc.



- 1 Select from the menu bar.
- 2 Enter hours, minutes and seconds from left to right in the time edit box using the **numeric keypad (0-9)**.
→ Each time an item has been entered, the next item will be highlighted.
- 3 Press **▶II** to start playback.

Zooming in

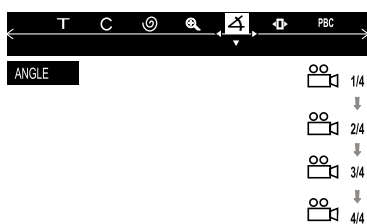
This function allows you to enlarge the picture on the TV screen and to pan through the enlarged image.



- 1 Select from the menu bar and press **▼** key repeatedly to select a zoom factor : **x1.5** → **x2** → **x4** → **OFF**.
- 2 To pan through the enlarged image, press **OK** to confirm the zoom selection and use **◀▶▲▼** keys to move the zoomed picture left, right, up and down.
- 3 To exit ZOOM mode, select zoom factor to "ZOOM OFF" from the menu bar.

Viewing from another angle (DVD only)

If the disc contains sequences recorded from different camera angles, this allows you to view the picture from different angles. The selections of angle are depending on the disc format.



- Select from the menu bar and press **▲▼** keys to select the desired angle : **1/4**, **2/4**, **3/4** or **4/4**.
→ Playback changes to the selected angle.

Advancing by frames



- 1 Select from the menu bar and press **▼** key to play the disc step by step (one frame each step.)
- 2 To resume normal play, press **▶II**.

Playback Control-PBC (VCD only)

PBC playback allows you to play Video CDs interactively, following the menu on the display.



- Select **PBC** in the menu bar and press **▼** key to select 'PBC ON' or 'PBC OFF'.

When playing a disc with PBC function

- If 'PBC OFF', the system will start playback automatically.
- If 'PBC ON', the PBC menu (if available) will appear on the TV screen for selection. Use the **numeric keypad (0-9)** to enter your choice.

Helpful Hint:

– If PBC mode is switched on, TIME SEARCH and REPEAT functions will not be available.

Checking the contents of DVD




- 1 Press **DISC MENU** on the remote.
→ If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu will appear.
- 2 Use **◀▶▲▼** keys to select the desired title or chapter, followed by **▶II** or **OK**.
→ The selected title or chapter starts playing.

Helpful Hints:



– The details of operation might differ depending on the DVD discs.
– Selecting a title or disc might not be possible on certain DVD discs.

Radio Reception/Sleep Timer

Tuning to radio stations

- 1 Press **STANDBY ON**  to switch on the last selected source.
- 2 Press **SOURCE** (or **TUNER** on the remote) to select TUNER mode.
- 3 Press **TUNER** again to select the desired band : FM or AM.
- 4 Press and hold  or  until the frequency indication starts to change, then release.
→ The system automatically tunes to the next strong radio station.

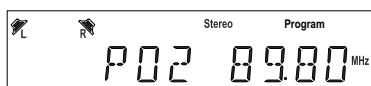


- To tune to a weak station, press  or  briefly and repeatedly until an optimal reception is found.
- 5 Repeat **step 4** if necessary until you find the desired radio station.

Presetting radio stations

You can preset up to 40 stations regardless of the reception.

- 1 Tune to your desired radio station (refer to "Tuning to radio stations".)
- 2 Press **PROGRAM**.
→ "Program" icon appears.
- 3 Use the **numeric keypad (0-9)** to select the desired preset number:
→ If "Program" icon goes off before you select the desired preset number, press PROGRAM again.





- 4 Press **PROGRAM** again to store the radio station.
- Repeat **steps 1-4** to store other radio stations.

Helpful Hints:

- If you attempt to program more than 40 preset radio stations, "FULL" is displayed.
- During programming, if no key is pressed within five seconds, the system will exit the program mode automatically.

Listening to preset radio stations

- In tuner mode, press  or  or use the **numeric keypad (0-9)** to select the desired preset number.
→ The preset number, radio frequency, and waveband are displayed.

Sleep timer setting

The sleep timer enables the system to switch to standby mode automatically at a preset time.

- 1 Press **SLEEP** on the remote repeatedly to select a preset time.
→ The selections are as follows (time in minutes):
15 → 30 → 45 → 60 → 90 → 120 → OFF → 15...



- 2 When you reach the desired length of time, stop pressing the **SLEEP** button.
→ "Sleep" icon appears.


To check the remaining length of time after sleep timer is activated

- Press **SLEEP** once.

To change the preset sleep timer

- Press **SLEEP** again while the remaining sleep timer is shown.
→ The display will show the next sleep timer options.

To deactivate the sleep timer


- Press **SLEEP** repeatedly until "OFF" is displayed, or press the **STANDBY ON**  button.

Volume control

Adjust **VOLUME** button (or press **VOL + / -** on the remote) to increase or decrease the volume level.

→ "VOL XX" appears. "XX" denotes the volume level.

To listen through the headphones

- Connect the headphones plug to the  socket at the front of the player.
→ The speakers will be muted.

To switch off the volume temporarily

- Press **MUTE** on the remote.
→ Playback will continue without sound and "MUTE" appears.
- To restore the volume, press **MUTE** again.

Selecting the surround sound mode

IMPORTANT!

– For proper surround sound, make sure you have followed the "Connections" and "Preparations" procedures fully.

– The center and surround speakers only operate when the system is set to surround sound mode and the source material being played is recorded or broadcast in Dolby Digital or Dolby Pro Logic surround sound.

– Stereo broadcasts or recordings will produce some surround channel effects when played in a surround mode. However, monaural sources will not produce any sound from the surround speakers.

- Press **SURROUND** on the remote to select surround or stereo mode.
→ The availability of the various surround sound modes depends on the number of speakers used and the incoming sound information available on the disc. The available output modes are shown below.

Dolby Digital Surround

Dolby Digital (also known as AC-3 or Dolby 5.1) and MPEG Multichannel delivers a realistic and dynamic sound similar to theater and cinema. It requires connection of all five speakers (front left/right, center, surround left/right) and subwoofer for correct Dolby Digital Surround sound reproduction. Each channel plays its own unique role in providing the right sound. Front left, center and right join two surround speakers to reproduce high, mid and bass frequencies in five full-range channels of surround. Bass rumble, explosions and low frequency effects you feel are delivered through the subwoofer. A large number of DVD discs have been recorded in Dolby Digital Surround.

Dolby Pro Logic Surround

The Dolby Pro Logic Surround system is a specially encoded two-channel analog format that will produce sound through four speaker channels (front left, center, front right, monaural surround) when a Dolby Pro Logic Decoder is used. It is also compatible with stereo systems but the user will only have two-channel (front left & right) of sound.

VSS (Virtual Surround Sound)

The ProLogic MPEG or Dolby Digital surround channel is processed by a 'virtualizer' DSP to add surround effect from just the two front speakers.

Stereo

All sound is reproduced and played through the front left and right speakers. This enables standard stereo reproduction.

Selecting the digital sound effect

The digital sound effects allow you to select from various pre-set modes that control the frequency bands of sound to optimize certain musical styles. It greatly enhances the excitement and enjoyment of your favorite music.

- Press **SOUND** on the remote repeatedly to select the available sound effect.

When playing a DVD/VCD/SVCD, select :

- CONCERT, DRAMA, ACTION or SCI-FI

When playing a CD/MP3 or in Tuner or Aux mode, select :

- CLASSIC, JAZZ, ROCK or DIGITAL

Dimming the display screen

- Press **DIM** repeatedly to select different levels of brightness for the display screen : HIGH, MID or LOW.

Using the remote to operate your Philips television

- 1 Press **TV/AV** on the remote.
- 2 Press **◀◀** or **▶▶** or use the **numeric keypad (0-9)** to select the TV's channel.
- 3 Press **TVVOL + / -** to adjust the TV's volume level.
- 4 Press **⏻** to turn off your TV.

Specifications

AMPLIFIER SECTION

Output power	
- Stereo mode (DIN)	2 x 50 W RMS
	2 x 40 W FTC
Total Harmonic Distortion	10% at rated power (1 kHz)
Frequency Response	180 Hz – 14 kHz / ± 1 dB
Signal-to-Noise Ratio	> 65 dB (CCIR)
Input Sensitivity	400 mV

TUNER SECTION

Tuning Range	FM 87.5 – 108 MHz (100 kHz steps)
	AM 530 – 1710 kHz (10 kHz steps)
26 dB Quieting Sensitivity	FM 20 dB
26 dB Quieting Sensitivity	AM 5000 μ V/m
Image Rejection Ratio	FM 25 dB
	AM 28 dB
IF Rejection Ratio	FM 60 dB
	AM 24 dB
Signal-to-Noise Ratio	FM 60 dB
	AM 40 dB
AM Suppression Ratio	FM 30 dB
Harmonic Distortion	FM Mono 3%
	FM Stereo 3%
	AM 5%
Frequency Response	FM 180 Hz – 10 kHz / ± 6 dB
Stereo Separation	FM 26 dB (1 kHz)
Stereo Threshold	FM 23.5 dB

DVD SECTION

Laser Type	Semiconductor
Disc Diameter	12cm / 8cm
Video Decoding	MPEG-2
Video DAC	10 Bits
Signal System	PAL / NTSC
Video Format	4:3 / 16:9
Video S/N	56 dB (minimum)
Composite Video Output	1.0 Vp-p, 75 Ω
S-Video Output	Y - 1.0 Vp-p, 75 Ω
	C - 0.286 Vp-p, 75 Ω
Audio DAC	24 Bits / 96 kHz
Frequency Response	4 Hz – 20 kHz (44.1 kHz)
	4 Hz – 22 kHz (48 kHz)
	4 Hz – 44 kHz (96 kHz)
Digital Output	SPDIF Coaxial & Optical

MISCELLANEOUS

Power Supply Rating	120 V / 60 Hz
Power Consumption	160 W
Dimensions (w x h x d)	435 mm x 78 mm x 360 mm
	17.1 x 3.1 x 14.2 (inch)
Weight	7.1 kg
	15.62 pounds

IR REMOTE CONTROL

Effective Range	> 8 Meter
Battery (1.5V)	AA x 2

SPEAKERS

Front speakers / Rear (surround) speaker

System	2-way satellite
Impedance	8 Ω
Speaker drivers	3" woofer; 18mm CD dome tweeter
Dimensions (w x h x d)	94 mm x 155 mm x 88 mm
	3.7 x 6.1 x 3.5 (inch)
Weight	0.45 kg/each

Center speaker

System	2-way satellite
Impedance	8 Ω
Speaker drivers	2 x 3" woofer; 18mm CD dome tweeter
Dimensions (w x h x d)	250 mm x 94 mm x 88 mm
	9.8 x 3.7 x 3.5 (inch)
Weight	0.92 kg

PASSIVE SUBWOOFER

System	6.5"
Impedance	8 Ω
Dimensions (w x h x d)	130 mm x 336 mm x 380 mm
	5.12 x 13.23 x 14.96 (inch)
Weight	5 kg
	11 pounds

Specifications subject to change without prior notice

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.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to solve a problem by following these hints, consult your dealer or call **1800-705-2000**.

Problem	Solution
No power.	<ul style="list-style-type: none"> – Check if the AC power cord is properly connected. – Press STANDBY ON to turn on the power.
No picture.	<ul style="list-style-type: none"> – Check if the TV is switched on. – Check the video connection. – Press DISC on the remote. – Set your TV to the correct Video In channel. This channel is usually near channel 00. Or, you may have a button on the TV remote control that selects Auxiliary or A/V IN channel. See your TV owner's manual for details. Or, change channels at the TV until you see DVD screen on the TV.
Distorted or poor picture.	<ul style="list-style-type: none"> – Sometimes a small amount of picture distortion may appear. This is not a malfunction. – Clean the disc.
Completely distorted picture or black/white picture.	<ul style="list-style-type: none"> – TV has a color system standard. If the disc's or DVD system's color system is different than your TV's color system, the picture may be distorted or colorless. Set to the correct 'TV SYSTEM' setting.
The aspect ratio of the screen cannot be changed even though you have set the TV shape.	<ul style="list-style-type: none"> – The aspect ratio is fixed on the DVD disc. – Depending on the TV, it may not be possible to change the aspect ratio.
No sound or distorted sound.	<ul style="list-style-type: none"> – Adjust the volume. – Check that the speakers are connected correctly. – Replace the speaker cables. – Disconnect the headphones. – The system is in pause, slow motion or fast forward/reverse mode, press PLAY to resume normal play mode.
No sound is heard from the center or rear speakers.	<ul style="list-style-type: none"> – Use the CENTER + / – or REAR + / – to adjust the volume level. – Check that the center or rear surround speakers are connected correctly. – Use surround mode.
The DVD player does not start playback.	<ul style="list-style-type: none"> – Insert a readable disc with the playback side facing down. – Check the disc type, color system and regional code. Check for any scratches or smudges on the disc. – Press SYSTEM MENU to turn off the setup menu screen. – Cancel the parental control rating function or change the rating level. – Moisture has condensed inside the system. Remove the disc and leave the system turned on for about an hour.
The DVD system does not respond when the buttons are pressed.	<ul style="list-style-type: none"> – Disconnect the power plug from the outlet and insert again.
Cannot activate some features, such as Angles, Subtitles, or multi-language Audio.	<ul style="list-style-type: none"> – Multi-language sound or subtitle is not recorded on the DVD. – Changing the language for the sound or subtitle is prohibited on the DVD. – The features may not be available on the disc.
Considerable noise in radio broadcasts.	<ul style="list-style-type: none"> – Tune in to the correct frequency. – Connect the antennas. – Fully extend the FM wire antenna. Position for best reception and secure to a wall. – Connect an outdoor FM or AM antenna. – Adjust the direction and position for best reception. – Place the antenna farther away from any equipment that may be causing the noise. – Increase the distance between the system and your TV or VCR.
The remote control does not function.	<ul style="list-style-type: none"> – Select the correct source (DISC or TUNER, for example) before pressing the function button. – Point the remote control at the remote sensor of the unit. – Reduce the distance to the player. – Remove any possible obstacles. – Replace the batteries with new ones. – Check that the batteries are loaded correctly.
The display is dark.	<ul style="list-style-type: none"> – Press DIM again.
Low hum or buzz sound.	<ul style="list-style-type: none"> – Place the DVD system as far away as possible from electrical devices that may be causing interference.
Low bass response.	<ul style="list-style-type: none"> – Check all speakers for correct polarity.
The disc tray cannot open and "TRAY LOCKED" is displayed.	<ul style="list-style-type: none"> – Press and hold PLAY/PAUSE and STOP buttons for more than two seconds.

Analog: Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. These jacks send audio through two channels, the left and right.

Aspect ratio: The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs is 4:3, and that of wide-screens is 16:9.

AUDIO OUT Jacks: Jacks on the back of the DVD System that send audio to another system (TV, Stereo, etc.).

Bit Rate: The amount of data used to hold a given length of music; measured in kilobits per seconds, or kbps. Or, the speed at which you record. Generally, the higher the bit rate, or the higher the recording speed, the better the sound quality. However, higher bit rates use more space on a Disc.

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

Component Video Out Jacks: Jacks on the back of the DVD System that send high-quality video to a TV that has Component Video In jacks (R/G/B, Y/Pb/Pr; etc.).

Disc menu: A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL or OPTICAL jacks. These jacks send audio through multiple channels, instead of just two channels as analog does.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right and center).

JPEG: A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3: A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using MP3 format, one CD-R or CD-RW can contain about 10 times as much data volume as a regular CD can.

Multichannel: DVD is specified to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

Parental control: A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

PCM (Pulse Code Modulation): A system for converting analog sound signal to digital signal for later processing, with no data compression used in conversion.

Playback control (PBC): Refers to the signal recorded on video CDs or SVCDs for controlling reproduction. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive-type software as well as software having a search function.

Progressive Scan: It displays all the horizontal lines of a picture at one time, as a signal frame. This system can convert the interlaced video from DVD into progressive format for connection to a progressive display. It dramatically increases the vertical resolution. A progressive-scan TV is needed to receive progressive scan output from the player.

Region code: A system for allowing discs to be played back only in the region designated beforehand. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

S-Video: Produces a clear picture by sending separate signals for the luminance and the color. You can use S-Video only if your TV has S-video In jack.

Sampling Frequency: Frequency of sampling data when analog data is converted to digital data. Sampling frequency numerically represents how many times the original analog signal is sampled per second.

Surround: A system for creating realistic three-dimensional sound fields full of realism by arranging multiple speakers around the listener.

Title: The longest section of a picture or music feature on DVD, music, etc., in video software, or the entire album in audio software. Each title is assigned a title number enabling you to locate the title you want.

VIDEO OUT jack: Jack on the back of the DVD System that sends video to a TV.

LIMITED WARRANTY

MAGNAVOX AUDIO SYSTEM

One Year Free Exchange

This product must be carried in for an exchange.

WHO IS COVERED?

You must have proof of purchase to exchange the product. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For one year thereafter, a defective or inoperative product will be replaced with a new, renewed, or comparable product at no charge to you. A replacement product is covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes.

WHERE IS EXCHANGE AVAILABLE?

You may exchange the product in all countries where the product is officially distributed by Magnavox. In countries where Magnavox does not distribute the product, the local Magnavox service organization will attempt to provide a replacement product (although there may be a delay if the appropriate product is not readily available).

BEFORE REQUESTING EXCHANGE...

Please check your owner's manual before requesting an exchange. Adjustments of the controls discussed there may save you a trip.

EXCHANGING A PRODUCT IN U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Magnavox to arrange an exchange.

Please call 1-800-705-2000 to arrange an exchange.

(In U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

EXCHANGING A PRODUCT IN CANADA...

Please contact Magnavox at:

1-800-661-6162 (French Speaking)

1-800-705-2000 (English Speaking or Spanish Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Magnavox is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Magnavox, P.O. Box 520890, Miami, FL 33152 (402) 536-4171

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