# RЕЛ

 $\bigcirc \bigcirc$ 

discarding batteries, be sure to dispose of them in th

proper manner, according to your state/provincial and

D. Battery shall not be exposed to excessive heat such

cal regulation

as sunshine, fire or the like

( AUDIO IN

USER MANUAL

**RTD317W** 

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.

This device complies with part 15 of the FCC

Rules. 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

Ventilation

10 cm [

The AC power plug is polarized

(one blade is wider than the

other) and only fits into AC

and try to insert it the other way

attempt to bypass this safety feature.

diagram.

manufacture

Note

- 1 -

Method 2

and red.

to the screen.

. (not supplied

For your safety

You must adequately ventilate the product. Make

sure there is adequate space around the unit

to provide proper air flow for ventilation. See

∱ 7 cm

**\_\_\_\_**10 cm

1 7 cm

This product complies with DHHS Rules 21

If it still won't fit, contact a qualified electrician to

change the outlet, or use a different one. Do not

Removing the power plug is the only way to

completely remove power from your product. Make

sure the power plug remains easily accessible.

mber for this DVD player is Region 1.

Component video jacks (Pr, Pb, Y)

ality. They are usually color-coded green, blue

TV

VIDEO IN

**-€**)'

· Connect the component video OUT jacks on the

Rear of the unit

sion, use the unit's progressive

receiver to the component video IN jacks on you TV so the video content goes from the receive

en, blue and red.

**FCC Information** 

may cause undesired operation

However, there is no guarantee that interference CFR Subchapter J. Applicable at the date of 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 try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna.

power outlets one way. If the plug won't go into the outlet · Increase the separation between the completely, turn the plug over equipment and receiver. Connect the equipment into an outlet on a

circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio / TV technician for help.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



It's important to read this instruction prior to using your new product for the first time.

# Important Safety Instructions

#### Additional safety information

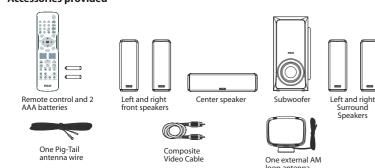
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. Always leave sufficient space around the product for

- rentilation. Do not place product in or on a bed, rug, in a bookcase or cabinet that may prevent air flow
- through vent openings Do not place lighted candles, cigarettes, cigars, etc
- on the product. Connect power cord only to AC power source as marked on the product.
- · Care should be taken so that objects do not fall into the product.

 Do not attempt to disassemble the cabinet. This product does not contain customer

## **Connections and Setup**

# Accessories provided



#### Things to consider before you connect

 Ensure that the mains supply in your house complies with that indicated on the identification sticker located on the back of your unit. Install your unit horizontally, away from any source of heat (fireplace) or appliances creating strong magnetic or electric fields. The components of this unit are sensitive to heat The maximum ambient temperature should not exceed 35°C / 95°F.

Leave enough space around the unit to allow adequate ventilation: 10 cm/4 inches on either side and above the top, and 5 cm/2 inches at the - 4 -

The humidity of the room should not exceed 75% If you have to use the unit outdoors, do not expose it to rain or splashing water. The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus. Moving the unit from a cold place to a warm one can cause condensation on some components inside the unit. Let the condensation disappear on its own before turning the unit on again Before moving the unit, make sure the disc tray is empty.

l	<b>Connections and Setup</b>		
•	Where the mains plug or an appliance coupler		

is used as a disconnect device, the disconnect If your product operates on batteries, adhere to the device shall remain readily operable. ortant use and cleaning information a A. Any battery may leak electrolyte if mixed with a the end of the booklet. different battery type, if inserted incorrectly, or if all

batteries are not replaced at the same time. Connecting the antennas Any battery may leak electrolyte or explode if disposed of in fire or an attempt is made to charge a battery  $FM75\Omega$ not intended to be recharged. C. Discard leaky batteries immediately. Leaking batteries E can cause skin burns or other personal injury When

AM Loop Antenna

1. Uncoil the AM Antenna wire.



The AM and FM antennas connect to the AM and FM terminals on the system's back panel. They must

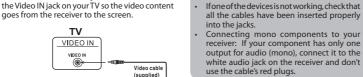
be hooked up in order to receive clear reception



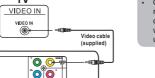
is inserted into the AM loop terminal and the other wire is inserted into the ground loop termina

# Connecting to your TV (VIDEO)

Method 1 If your television is a high definition Composite video jack (yellow) The basic video jack is color-coded yellow. Video cable (yellow) is supplied for the connection scan output to get the highest possible video for good picture quality Connect the video OUT jack on the receiver to the Video IN jack on your TV so the video content



- 5 -



Rear of the unit

**Overview of Controls** 

1 2

TITLE

MUT

REV

SLOW

RGЛ

5

8

4

(7)

**FCC Information** 



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USERSER-VICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

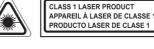
THOSE SPECIFIED MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

WARNING: MAINS PLUG IS USED AS DISCONNECT DEVICE AND IT SHOULD REMAIN READILY OPERABLE DURING INTENDED USE. IN ORDER TO DISCONNECT THE APPARATUS FROM MAINS COMPLETELY, THE

Caution This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified persionnel Visible and invisible laser radiation when open

and interlocks defeated. DO NOT STARE INTO BEAM. Class 1 laser product



Illustrations contained in this document are fo This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not representation only. correspond to the Region number of this DVD

player. this player cannot play the disc. The Region

**Connections and Setup** 

#### Digital optical input Connecting to your TV (via HDMI input) . Connect components capable of outputting Dolby Digital (e.g. TV or Set Top Box) or standard

HDMI stands for High Definition Multimedia Interface. HDMI transfers digital audio and uncompressed digital video on a single cable. The component video jacks are color-coded Additional component video cables (not Press the HDMI button on the remote control to supplied) are required to provide best picture

change output signals as follows: 480p, 720p, 1080i and 1080p. тν To HDM

0.0 1°0°0 Rear of the unit

Note: Refer to the owner's manual of the connected TV as well.

Getting sound from external sources such as TV

# Using AUX IN jacks Connect the AUX IN jacks from the unit to the AUDIO OUT jacks on VCR, TV, Set Top Box or

other compor 2. Push the AUDIO/AUX button on the remote resolution. Set the Progressive Scan option in the Video menu to On. control to activate the sound from the external 3. Push the SURROUND button on the remote control to select the sound mode.

тν VCR Set Top Box °0ľ<del>0</del> ]**`O**|@+# 

Rear of the unit

**Overview of Controls** 

THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF "DANGEROUS VOLTAGE" INSIDE THE PRODUCT. THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT Important battery information INSTRUCTIONS ACCOMPANYING THE PRODUCT.

THE LIGHTNING ELASH AND ARROWHEAD WITHIN

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN

MAINS PLUG SHOULD BE DISCONNECTED FROM THE MAINS SOCKET OUTLET COMPLETELY.

Please respect the environment and prevailing regulations. Before you dispose of batteries or accumulators, ask your dealer whether they are subject to special recycling and if they will accept them for disposal.

- 2 -

This class B digital apparatus complies with Canadian ICES-003.

#### Cet appareil numérique de la class B est conforme à la norme du NMB-003 du Canada.

PCM (CD) format digital signals. Push the OPTICAL button on the remote control to activate the sound from the external source.

OR OR

`**0**\_0"=

1°0ĭ0

00

3 Push the SURROUND button on the remote

control to select the sound mode

т٧

Rear of the unit

## WARNING

To reduce the risk of fire or electric shock hazard, do not expose this product to rain o moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the apparatus.

### Important Information

Service information

techniques

batteries.

#### **DVD copy protection**

In accordance with the DVD standard, your DVD This product should be serviced only by those player is equipped with a Copy Protection system, which can be switched on and off by the DVD specially trained in appropriate servicing disc itself, in order to make any recording of the relevant DVD disc onto a videotape of very poor Do not mix different types of batteries or new picture quality, or even impossible. This product and old batteries. Do not use rechargeable incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights In order to avoid any risk of explosion, observe owned by Macrovision Corporation and other the polarities indicated inside the battery rights owners. Use of this copyright protection compartment. Replace only with the type of technology must be authorized by Macrovision

unless otherwise authorized by Macrovisio

batteries specified. Do not dispose of them in Corporation, and is intended for home use only a fire or recharge them. If you are not using the remote control for a Corporation. Reverse engineering or disassembly long period of time, remove the batteries. is prohibited

Important Safety Instructions

Please read and save for future reference · Protect the power cord from being walked on or pinched particularly at plugs, convenience Some of the following information may not apply o your particular product; however, as with any receptacles, and the point where they exit from electronic product, precautions should be observed the apparatus. during handling and use. Read these instructions

Keep these instructions Heed all warnings. Follow all instructions. Do not use this apparatus near water.

Clean only with a dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (Including amplifiers) that produce heat.

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 is provided for your safety. If the provided plug does not fit into your wall outlet, consult an electrician for replacement of the obsolete

Only use attachments / accessories specified by the manufacturer. Use only with a 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 Portable Car cart / apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning storms

or when unused for long periods of time. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power 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.

#### **Connections and Setup**

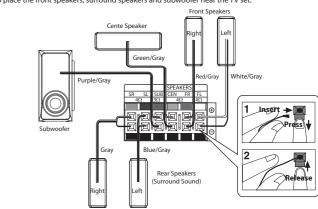
#### Connecting the speakers

outlet.

Speaker wires are color-coded to match the terminals. Connect the speaker wire from the back of each speaker to he corresponding color terminal at the back of the unit. Press down the tab to open the terminal and insert the wire Release the tab to lock wire in the terminal

- 3 -

When connecting the speakers, make sure the polarities ("+" speaker wire to "+" on the receiver. For example, red wire to red terminal on the receiver) of speaker wires and terminals match. If the cords are reversed, the sound will be distorted. Do not let the speaker wires touch each other, it will damage the Home Theater's amplifier. Center speaker provided with this unit are magnetically shielded to protect your TV set. It is not recome to place the front speakers, surround speakers and subwoofer near the TV set.



To adjust each speaker volume level for optimum listening experience. (1) Press the LEVEL button on the remote control to select FL (front Left speaker (2) Press the VOL+/VOL- buttons to adjust the value up or down (between -10dB and +10dB). (3) Repeat step (1) and (2) for the other speakers FR, SL, SR, CT, SW.

speaker gains may be set to levels of up to +10dB, actual max levels may also depend on your Volume Setting



Courtesy Dolby Laboratories

Proper placement is vital to establish an evenly distributed sound field. 4. Subwoofer A subwoofer is designed to reproduce powerful low bass effects (explosions, the rumble of spaceships,

Front speakers carry primarily music and sound

In surround mode, the center speaker carries most

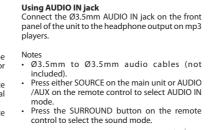
It should be set between the left and right peakers.

The surround speakers' overall sound balance

should be as close as possible to the front peakers

of the dialog as well as music and effects.

**Playing Discs - Basic Functions Basic Playback Operations** 



Suggest using Ø3.5mm AUDIO IN jack for MP3 player and AUX IN jacks for auxiliary equipment such as DVD, VCR or PC. If the AUX IN (or AUDIO IN) audio signal is mono, you may not receive audio on all speakers.

- 6 -

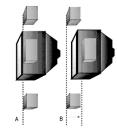
the on-screen menus

#### Front speaker placement

For best results, follow the speaker placement below.

**Connections and Setup** 

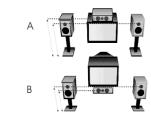
Alianment Align the center speaker evenly with (A) or slightly behind (B) (the left and right speakers), but not ahead of them.



Place the left and right speakers to form a 45degree angle with your favorite viewing position to duplicate the soundtrack mixer's perspective.

#### Heiaht

The three front speakers should be as close as possible to the same height. This often requires placing the center speaker directly on top (A) of beneath (B) the TV set.



#### **Better surround placement**

Locatio

f possible, place surround speakers to either side of the listening area, not behind it.

#### Heiaht

If space permits, install surround speakers 2-3 feet above viewers. This helps to minimize localization effects.

Aim surround speakers straight across the room, not down at viewers, to help create a more open, spacious surround sound field.

Aimina



Rear wall If rear wall mounting is the only choice, aim the speakers at each other (A), towards the front (B) or towards the sidewalls (C, D). Experiment with placement until sounds seem to surround you, rather than come from behind you.

Surround speakers can go on stands facing each

other to approximate sidewall mounting (A), or to the sides or rear of the viewing area, aimed upwards; they can go right on the floor, or preferably, a few feet off the floor such as on end tables (B)



#### Test tone/Channel balance

- 8 -

No adjacent walls

Channel balance Your receiver is equipped with a test signal generator for balancing the channels. As the signal "travels" from channel to channel, adjust the level controls until each channel plays at the same loudness level.

Level adjustment and surround channel level expectation

Even though you adjust the surround channel to be as loud as the others on the test signal, on actual program material the surround channel is adjust the surround level; program producers use surround for subtle atmospherics and ambience, and only rarely for special effects.

ON•OFF Turns on/off the unit. Selects the DVD mode DVD: TUNER Selects the TUNER and selects between FM/ AM. (၂) AUDIO/AUX: Selects and toggles between the front AUDIO IN mode and rear AUX IN mode. (for listening to audio input from connected TV, (3) VCR or SetTop BOX). OPTICAL: Selects OPTICAL IN at rear for digital audio 6 connection. AUDIO/AU> Number entry 9 CLEAR: Quits the current setting manually from the OPTICAL TV screen without saving change. Accesses the Info menu MENU TITLE: Accesses the title menu of DVD discs. DISC MENU: Accesses the disc menu during playback. Confirms your selection.  $\land$ >/</ >/ >/ >: To navigate through the menus. The left and right arrows also tune the radio frequency in (OK) {> the tuner mode. MUTE: Mutes and restores the sound.  $\sim$ SETUP: Enters Setup menu. RETURN In DVD mode, returns to the previous menu RETURN VOL +/-Adjusts the sound volume. SET UP CH+/→, CH-/↔: Directly accesses the next or previous chapter (DVD) or track (CD). Selects programmed stations in TUNER mode. REV: Starts reverse accelerated play. PLAY Starts playing a disc. FWD: Starts forward accelerated play. Selects SLOW motion function. SLOW STOP Stops playback. STOP PAUSE PAUSE Freezes frame, accesses frame advance AUDIO: Accesses the audio function. ANGLE ZOOM SUBTITLE ANGLE: Accesses the camera angle function for DVD disc ZOOM: Accesses the Zoom function. 

Selects the subtitle languages or turns SUBTITLE: subtitle off ( if available). Changes video output signals (480p, 720p, HDMI

1080i or1080p).

SUBWOOFER: Selects among subwoofer output levels (soft/balance/strong/powerful).

RANDOM Turns on/off random playback on CDDA disc

- REPEAT: Accesses the repeat function.
- Toggles channels for different level settings. LEVEL: Adjusts the value using VOL +/-

setting. Press the button to select between 5.1 Channel and Stereo modes. Remote control functions in tuner mode TUNER: Selects the TUNER and switch between FM/AM. Adjusts the sound volume VOL+/-: MUTE: Mutes and restores the sound. TUNER +/-: Tunes down and up the radio

SURROUND: Changes the Surround sound

frequencies. MEMORY: Stores a station.

Selects programmed stations.

CH+/-:

AUDIO:

Selects between Stereo and Mono Note: mode for Tuner (FM).

Insert 2"AAA"("UM-4"/"R03") batteries to the remote control prior to use.

Using remote control to navigate through Compatible discs • DVD, DVD-R, DVD-RW, DVD+R, DVD+RW · CD, CD-R, CD-RW

Use >, <, , , wand OK on the remote control to navigate through the on-screen displays (the Compatible formats DVD player's menu, the Info Display that appears • DVD JPEG during playback, or a disc's menu).

 CD, VCD Use , , , , on the remote to move through onscreen menus in the direction of the arrow button Regional coding Your unit has been designed to process regional management information stored on DVD discs. The (e.g., to move right, press >). The arrow buttons are used to highlight an option. Once highlighted, press OK to select the option that is highlighted.



Switches the

regional code for your unit is 1. Discs that have a ifferent regional code will not play. Operating the DVD receiver

 Turn on your television set.
 Press ON•OFF on the remote or ON/STANDBY located on the unit's front panel. Press DVD on the remote control

#### Loading disc

1. Press 
on the front panel to open the disc tray. 2. Place a disc onto the disc tray with the label side 3. Press **A** again to close the disc tray.

#### Plavback

Switch the unit and the TV set on. After loading a disc, playback starts automatically, or the disc menu appears. If the disc menu appears, select the Play option to begin playback. 2. Press STOP to stop playback

#### Accelerated play

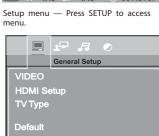
While the disc is playing, press REV or FWD one or more times to vary the speed and direction of the accelerated play. Press PLAY to resume normal playback.

# Pause

frame. Press PLAY to resume normal playback.

#### Frame advance

Press PAUSE twice. "Step" is displayed. Each time you press PAUSE button, the picture advances one frame. 3. Press PLAY to resume normal playback





-9.

- 10 -

- 11 -

Variable slow motion

1. Left, Right (Front Speakers)

3. Surround (Rear Speakers)

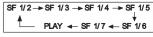
effects.

2. Center

- 7 -

1. Press SLOW button on the remote in play mode.

2. Each time the SLOW button is pressed the speed of slow-motion playback changes in the following sequence:



3. Press PLAY to resume normal playback.

#### Changing chapter/track

While the disc is playing, press the CH+/- button to go immediately to the next or previous chapter, or to the next or previous track.

#### Zoom

1. While a disc is playing, press ZOOM until you reach the zoom size you want. The ZOOM button toggles through 2x, 3x, 4x and then zooms out to 1/2x, 1/3x and 1/4x, then returns to normal playback. 2. Move from one area to another (pan) using the arrow buttons.
 To turn ZOOM off, press ZOOM until you get to the ZOOM OFF option

#### Types of menus

Disc menu — The appearance and contents of this menu varies according to the type of disc you have inserted. It is separate from the Setup

Info menu — The unit's Info menu appears at the top of the screen while the disc is playing Press INFO on the remote to switch the Info menu on or off.

#### TT 1/10 CH 1/16 ① 00:13:07

Setup menu — Press SETUP to access this

While the disc is playing, press PAUSE once for freeze

Opens and closes Stops disc plavback. the disc tray.

Selects the input sources. Press repeatedly to select:
 DVD – to watch DVD videos. TUNER – to listen to the radio

 AUX IN (rear) / AUDIO IN(front)
 to listen to the audio input
 from the connected TV, VCR or Set Top Box. OPTICAL (rear) - to connect

AUDIO IN iack

connects audio devices.

**Overview of Controls - Front Panel Controls** 

Toggles between different

digital audio comp

subwoofer output levels (among Starts/pauses Adjusts the soft/balance/strong/powerful). playing a disc. volume.

unit on and off.

# 

#### The Info Menu

# S)

When you press STOP, the unit stores the poin where playback was interrupted. If you press PLAY again, playback resumes from this point. To stop playback completely or to start again from the beginning, press STOP twice. If the unit is left in STOP mode for more than 5 unit is left in 510, user interaction, a scree minutes without any user interaction, a scree saver is activated. At the end of 30 minut switch out any user interact INVALID KEY will be displayed if the function

you select is not available

## The Info Menu

1. Press INFO on the remote while a disc is playing to display the info menu. The first banner shows title, chapter, and time display information. 2. Press INFO again for audio language, subtitles,

- and camera angle. 3. Press INFO a third time for play mode, bookmark
- and sleep timer. 4 Use the right/left arrow buttons on the remote
- to select an icon. 5. Use the up/down buttons to scroll through the
- options.

DVD Info	DVD Info Display			
	Title Cl	1/16	Time display	
Audio	alanguage	Subtitl	es Camera angle	
Play mod		Bookmark BOOKMARK	Sleep timer	
CD Info I	CD Info Display			
	Frack ( 1/10 (1))		Time display	
Play mod		BOOKMARK	Sleep timer	

- 12 -

Time display

display

press OK

To access the Time Display, press INFO on the

DVD: Chapter elapsed time, Chapter remaining

time, Title elapsed time and Title remaining time.

Audio CD: Track elapsed time, track remaining time,

To directly access a location on the disc which does

not correspond to the start of a title or chapter, press INFO once and press OK, highlight the Time

Display icon using the arrow buttons, then enter

a time with the number buttons (hh:mm:ss) and

Note: Time display function may not

6. During the slide show you can use the left/right

button to rotate the picture, the up arrow but-

ton to rotate the image vertically, the down

arrow button to rotate the image horizontally.

Use the ZOOM button to magnify the picture.

Use the CH- button to go back to the previous

picture or the CH+ button to go to the next one,

and the STOP button to interrupt the slide show

. When the unit has played all the files, the music

or slide show stops and the disc's contents are

The time taken for the contents of the

disc to be displayed varies according to

the size and number of jpeg files on the

disc. If nothing is displayed after a few

minutes, the file sizes may be too large

Reduce the files' resolution and write

Before inserting a disc, make sure it is

and display the disc's contents.

displayed again.

ST

8. Press STOP to end playback.

Notes:

another disc.

compatible with the unit.

be available on all discs.

disc elapsed time, disc remaining time.

remote. Press the up/down buttons repeatedly to

## Jpeg Files

### **Playing jpeg files**

Jpeg files are image files. Make sure that they have resolution of less than 2 megapixels. 1. Open the disc tray.

2. Place the disc with the printed side facing up and close the disc tray. The folders on the disc will be listed in numerical

order on the left side of the screen. When you highlight a folder, then press OK button. The list of songs or pictures in the folder are listed in numerical order on the right side of the screen 3. Select a folder using the up/down arrow buttons

on the remote, then press the left arrow button to move to the music/picture icons at the bottom of the screen. Use the left/right arrow buttons to select either music or picture mode.

4. Press the up arrow button to move to the file list on the right side of the screen. Use the up/ down arrow buttons to select a file. Press OK or PLAY to start playback.

5. The unit starts the slide show with the jpeg file you have selected, then displays all the jpeg files in the same folder, then all the jpeg files in the subfolders located in the same folder. You can set the amount of time a picture remians on the screen in the General Setup menu.

#### The Info Menu

Title/chapter (DVD)/track (audio CD) Audio (DVD) Some discs have several audio tracks used for To directly access a title, chapter (DVD) or a track (audio CD), press INFO, press OK. different languages or different audio formats. Select the Title(TT), Track(TRK) or Chapter(CH) To change the language or audio format during icon and enter a number directly with the numeric playback: buttons. Press OK again to confirm. 1. Press the INFO button twice. 2. Use the left/right arrow buttons to select the

Audio icon, or press the AUDIO button on the Note: Many discs only have one title. remote control. Choose a language or an audio format with the

Subtitles (DVD)

arrow buttons.

buttons.

Languages menu.

Video Setup.

want to exit setup.

GENERAL SETUP

IDMI Setu

Т∨ Туре

Video

HDMI Setup

up/down arrow buttons. This option is only available if the disc offers dialog

selected in the language Setup menu.

Subtitles are turned off by default. Turn on subtitles

1. While the disc is playing, press INFO twice, then

2. Select a language using the up/down arrow

3. To turn subtitles off, select the off option or

When you change the language of the subtitles

using the Info menu, it only applies to the disc

currently being played. When you eject the disc

and switch off the unit, the subtitles will default

to the subtitle language you selected in the

This function may not be available on all discs.

The Setup Menu

There are four options in the main setup menu:

General Setup, Language Setup, Audio Setup and

Press SETUP to bring up the main menu. Select

one of the menu icons across the top of the screen

using the left/right arrow buttons. The menu's

screen. Press the right arrow button to move to the

option's choices on the right. Press SETUP if you

**General Setup** 

ons are displayed on the left side of the

press SUBTITLE on the remote.

select the Subtitles icon using the left/right

#### angle, this function is not available. languages or audio formats. When you change Play mode (all discs except jpeg)

Camera angle (DVD)

ecific scenes.

left/right buttons.

buttons.

the dialog language using the Info menu, it only 1. While the disc is playing, press the INFO button changes the dialog language of the disc being twice for CD and three times for DVD. played. When you eject the disc or switch off Select the Play Mode icon using the left/ right the unit, the language will revert to the one you arrow buttons.

Some discs offer different camera angles for

. To change the camera angle, press the ANGLE

button on the remote or press the INFO button

twice and select the Camera angle icon with the

2. Choose the angle with the up/down arrow

If the disc was recorded using a single camera

3. Use the up/down arrow buttons to select an option. · DVD play modes: standard, program, A-B repeat, title repeat, chapter repeat. Program play mode is only available if a program list has been created (see below). Repeat mode is only available with discs that display elapsed time and remaining time. To repeat a sequence between points A and B, choose the A-B repeat option, and then follow the instructions for entering the two points.

 Audio CD play modes: standard, introscan, random, program, repeat A-B, repeat disc, repeat track. 4. To stop repeat playback, select the Play Mode

icon and use the up/down arrow buttons to choose the Standard option

Press OK. The Program screen is displayed. 3. The first spot in the list is highlighted. Use the number buttons on the remote to enter a track

select the Program option.

number. As for DVD discs: T stands for Title while C stands for Chapter. As for Audio CDs: T stands for Track. 4 Use the arrow buttons to move to the next spot in the list. Enter the next track number.

5. Continue entering tracks until you have completed your list. 6. Highlight the Play option at the bottom of

the screen and press OK or press PLAY to start playback. The program list will play in the order you programmed it

To stop program play, press STOP or select Standard from the Play Mode option in the INFO display. If you want to cancel the list, repeat Steps 1 and 2 to select CLEAR and press OK.

#### Sleep 1. Press INFO twice for CD and three times for

DVD Select Sleep icon with the left/right arrow buttons.

2. Select one of the available options using the OK button : Off, 30, 60, 90 or 120 minutes.

Note: This function is not available AUX IN /OPTICAL IN / AUDIO IN /

- 14 -

Night Mode

Moderate or Off.

distance.

Center Delay / Rear Delay

the up/down arrow buttons.

# The Setup Menu

#### Subtitles Select the subtitle language using up/down arrow

This option allows you to return the unit's settings to the original factory settings. Any changes you buttons and press OK. have made to the unit's settings will be reverted To change the language of the subtitles during hack to the original settings. playback, press INFO twice for DVD and use the

### IMPORTANT!

- 13

Default

Once Progressive Scan has been activated, an SUBTITLE button on the remote to select a subtitle image will only be visible on a progressive scan TV or monitor. If you choose this option and you don't have a progressive scan TV or monitor you may get a picture with incorrect color or

#### LANGUAGE SETUP

With this menu, you can set the language for unit menus, dialog, subtitles and the disc menus. If you chose "English" during initial set-up, any menus generated by the disc are in English, and so is the language of the dialogs (if this language s available on the disc).

> \_ \_\_ Language Setup

- 1. Select the Language Setup icon in the main menu using the left/right arrow buttons. 2. Select one of the options using the up/down
- 3. Press the right arrow button to move to the language choices. 4. Use the up/down arrow buttons to highlight
- the language of your choice and press OK.

Select the language of player menus and press

#### OK. Audio

- 17 -

Select the dialog language using up/down arrow buttons and press OK.

The Info Menu

a program list.

#### Creating a Program List for Program Introscan (CD) This option plays the first ten seconds of each track Play Mode (Audio CDs and DVD discs)

#### on a CD. To use program play mode, you must first create . Press the INFO button twice, then select the Play mode icon with the left/right arrow buttons. 1. To create a program list, press the INFO button twice for CD and three times for DVD. Highlight 2. Press the up/down arrow buttons to select the INTRO option and press OK to start IntroScan. the Play Mode option and press the up arrow to 3. Press STOP to stop Introscan, and press PLAY to resume normal playback.

Bookmark (DVD and audio CD) . Press INFO twice for CD and three times for DVD.

#### Select the Bookmark icon with the left/right buttons, and press OK. A menu is displayed with

five bookmarks. . Repeat step 3 to tune to another radio station 2. The first bookmark space is highlighted. Press 5. Press TUNER to toggle between FM and AM. OK to set the bookmark. The bookmark is saved and is indicated by the number 1. You can set up Storing radio stations to five bookmarks on a disc.

The unit can store up to 30 radio stations in its To start playback from a bookmark, press the memory. You can enter every single radio station PLAY button on the remote. yourself or the unit can store all available radio . To delete a bookmark, highlight it and press

stations automatically in ascending order. CLEAR

ST Note: This function is only available with discs whose elapsed time or remaini time appears in the Info menu.

I can use this function to control the different

sound levels via dynamic compression. It improves the

quality of the sound track at a low volume, and quiets

the loudest sounds. You can choose between Quiet,

Basic settings have been preset for the speakers included

osition than the front speakers. Highlight the Center Delay/Rear Delay option using

This function is used to test and adjust the volume level

Use I v to select the speaker channel you wish to

test and adjust. You'll hear a test tone come from the

speaker you select. Use the VOL button to adjust the

Select the Video icon in the main menu using the

Select a menu option using the up/down arrow buttons and press OK.

Video Setup

The Slide Time option lets you select the amount

of time a picture is displayed in a slide show. The

choices are 5 seconds, 10 seconds, or 15 seconds

(gain) for each individual speaker channel.

level to your desired setting. Press OK button to exit this function.

**VIDEO SETUP** 

left/right arrow buttons.

3. Radio frequencies will be browsed and radio stations stored automatically. When all the available radio stations are stored or all 30

memory locations are full, the auto preset programming function will stop. Manual preset

Radio

radio function.

2. Press TUNER.

station.

Manual tuning

The unit has a built-in tuner that allows for FM

radio function. The AM loop antenna allows for AM

1. Connect the FM antenna and the AM loop

3. Tune a station by pressing TUNER+/-repeatedly

until the desired station is found. Alternatively,

you can press and hold the same buttons down

for about one second to activate the automatic

search function. In this mode the unit will

automatically tune frequencies until it finds a

antenna at the back of the unit.

S.K.

Tips:

When the FM station broadcasts Stereo

When you manually tune into a weak FM station, press AUDIO on remote control to

switch from Stereo to Mono mode. This

If there is any interference, change the

antenna's position until ideal sound

reception is obtained. TV and other

electronic devices could be the cause

of interference, so try to position the

A weak signal can affect the "Automatic

preset programming" function's efficiency. Adjust the antenna for better reception

AUDIO IN/AUX IN/OPTICAL IN

TV, VCR or Set Top Box can be connected to AUX

IN / OPTICAL IN input jacks at the back of the unit

or AUDIO IN at the front panel so that sound from

the auxiliary component comes into the unit and

**Connecting auxiliary components** 

Refer to "Getting sound from external sources such as TV" for details on connecting the auxiliary

Selecting AUDIO IN/AUX IN/OPTICAL IN

Press either SOURCE on the main unit or AUDIO/

AUX/OPTICAL on the remote control to select

Sound output in AUX IN mode (or AUDIO

You may change the surround setting by pressing SURROUND to select between 5.1

If the AUX IN (or AUDIO IN/OPTICAL IN) audio

signal is mono, you may not receive audio on

AUDIO IN, AUX IN or OPTICAL IN mode.

CHANNEL and Stereo modes.

sound is found, ST is displayed.

will reduce the background noise

antenna away from then

and a more efficient search.

out through the speakers.

components to the unit.

IN/OPTICAL IN mode)

all speakers.

- 15 -

mode

1. Tune to a radio station (see "Manual tuning" for details). 2. Press MEMORY. While the Program Preset number is still flashing, input your desired preset number using the numeric buttons, then press MEMORY to store it.

Automatic preset programming

automatic preset programming.

Press TUNER to enter the Tuner mode.
 Press and hold TUNER for two seconds to start

**Retrieving preset stations** 

I. Press TUNER to enter the Tuner mode 2. Press CH +/- to search up or down for the preset stations or directly press the numeric buttons.

#### **Additional Information**

# Troubleshooting

unit.

this device.

Clean the disc.

There is no picture.

Check the connections.

Check the connections.

quality.Check the connections.

No surround sound.

# The unit does not switch on.

# Make sure it is plugged in.

Press the ON•OFF button on the remote control or the ON/STANDBY button on the front of the

The device switches off spontaneously.

any user intervention. Switch it on again

It might be impossible to read the disc.

Check you have switched on the TV set.

to toggle among different HD OUTPUT.

The picture is of poor quality (with snow or

There is no sound or the sound is of poo

Make sure the speakers are connected.

• Make sure the MUTE function is not on.

**Limited Warrantv** 

menu (See Positioning speaker or Audio Setup)

HDMI cable can cause data lost.

Select the AV input assigned to the unit on the

Replace the HDMI cable with a better one. Bad

Press HDMI key on remote handset several times

The device switches off automatically when it is

in STOP mode for more than 30 minutes without

Insert the disc with the printed side facing up.

## only intermittently. · Check that batteries are inserted or change

I can't find my file in the jpeg listing.

Make sure the file name

• Aim the remote control at the unit. The infrared beam must not be blocked or interrupted. · Check that the remote control is configured to control the device you are trying to operate

The remote control does not work or works

# The subtitles do not appear.

Check that the disc can actually be played by Check that the DVD disc provides subtitles. Refer to the section on how to display sub-Check that the disc's regional code matches the titles unit's regional code. This unit's regional code is

with it.

The disc menu language is not the correct one. The disc menu language has not been set up.The language of your choice is not available on the disc

#### Precautions

If your unit has been stored in a cool place for any length of time, during a journey for example, wait for about 2 hours before using it. The openings located on the top and bottom are for ventilation and must not be obstructed. · During thunderstorms, we recommend that you isolate the unit from the electrical supply so that it is not damaged by electrical or electromagnetic surges. This unit is designed for continuous use. Switching off the unit to standby mode does not disconnect it from the mains supply. To completely isolate the equipment, remove the plug from the mains jack as some components emain connected to the electrical supply. Check the speaker configuration in the Setup If you notice any burning or smoke, disconnect the unit immediately to avoid any risk of electrocution. Do not attempt to look inside the unit through the disk tray opening or any other opening.

You may be electrocuted or exposed to laser radiation

- 19 -

**Additional Information** 

- 16 -

Progressive Function provides high quality pictures with less flickering. Turn on Progressive Scan if you used the Component Video jacks of the unit to connect a TV or monitor compatible with a progressive scan signal. Select P-Scan YPbPr and press OK to activate Progressive Scan. This lets you select the resolution of the player's arrow buttons.

- output according to the connected TV. · Supported HD JPEG mode: 480p, 720p, 1080i and 1080p. TV Type
- Depending on the format of the DVD disc, you can choose the picture format (aspect ratio) best suited to the format of your TV screen:

# · 4:3 PS: reproduces a 4:3 picture without

 4:3 LB: gives best reproduction of pictures recorded in this format (i.e. with horizontal bands at the top 16:9 (widescreen): reproduces 16:9 format films

Player Menu

change the Audio language during playback press INFO twice for DVD and use the left/right arrow buttons to highlight the Audio icon. Press the up/down arrow buttons or AUDIO on the remote control to select audio language.

with your unit. However, to suit the acoustic conditions in your listening room and to make the sound more language. effective, you may need to delay the signal coming from Disc Menu To change the language of the disc menus, select some of the speakers. Channel delay compensates for centre or surround speakers that are closer to the listening the language using the up/down arrow buttons and press OK. The language you select will only be displayed if the disc is programmed with that language 2. Press the right button to move to the default 3. Press the up/down buttons to adjust the distance ST Notes: Test Tone

left/right arrow buttons to highlight the Subtitle

icon. Press the up/down arrow buttons or the

If the selected language is not available on a disc, the disc's language will be used If the language chosen is available, it is automatically selected when you display the subtitles or press SUBTITLE on the

remote control. Otherwise, the subtitle language indicated on the disc is selected.

AUDIO SETUP You can adapt your unit to other equipment and access specific functions with the Audio Setup

1. Select the Audio Setup icon in the main menu using the left/right arrow buttons.

Select an option using the up/down arrow buttons. Press the right arrow to move to the option's choices

> F Audio Setup

- This unit is for domestic use only and must not be used for industrial purposes.
- Total or partial copying of recordings protected by copyright legislation, without the explicit permission of the holder of the rights, contravenes current legislation. Copying or downloading music files for sale or any other business purpose constitutes or could constitute a violation of copyright law.

#### Cleaning

- · Use a soft, dry, clean cloth. Regularly dust the vents at the back or sides.
- Using solvents, abrasive or alcohol-based products risks damaging the unit. If an object or liquid enters inside the unit,
- unplug it immediately and have it checked by an authorized servicer or service center.

#### Handling and caring for discs

- Handle your discs with care. Hold the disc with your fingers at the edges or through the hole. Insert the disc with the label facing up (for a
- single-sided disc). · Place the disc properly into the tray in the
- allotted holder
- · Use a soft cloth to clean discs if necessary, always wiping from the centre to the edge.
- Always put discs back in their cases after use and store in a vertical position. Do not close the tray with two discs in it or with
- a disc not sitting correctly in the holder.
- Do not play cracked, chipped or warped discs nor try to repair them with adhesive tape or
- Do not write on a disc.
- · Do not move the unit when a disc is being played.
- · Do not scratch discs or store them in places exposed to direct sunlight, high humidity or high temperatures.
- Do not use aerosol cleaners, benzene, anti-static liquids or any other solvent for cleaning discs. When cleaning, wipe gently with a soft damp (water only) cloth from the centre to the edge avoiding circular motions, which could cause scratches and interference during playback.

Compatible Formats In order to ensure playback, discs must conform with DVD or CD standards. This unit may not play

some recordings or files due to differences in recording formats, software used and disc types.

DVD-Video Digital video discs - 12 cm, single or double sided, single or dual layer. DVDs are high density optical discs on which high quality picture and audio are recorded by means of digital signals.

## DVD-R, DVD-RW, DVD+R, DVD+RW

Most DVD-R and DVD+R (one recording only), DVD-RW and DVD+RW discs (rewritable), depending on the DVD writer and discs used. Recordings using ШR DVD-R and DVD-RW discs must be made in Video DVD mode. Recordings using DVD+RW discs must be made in accordance with the specifications for DVD+RW discs with a 4.7 GB capacity.

Audio CDs Audio CDs (12 cm)

CD-R, CD-RW Most CD-R (one recording only) and CD-RW discs (rewritable).

played, provided that the session has ended before the disc is played (depending on the write software). However, depending on the condition of the CDwriter, computer and the disc used, you may find that not all discs will play. When playing a CD-R disc, it is normal for the unit to take up to 60 seconds to recognize the disc before starting to play. If the disc is not recognized after a period of 120

seconds, remove the disc, and insert it again. • Do not use its full capacity. CD-Rs should be preferably used instead of CD-RWs (rewritable CDs) as, in certain cases, CD-RW playback may be faulty. Use reliable, good-quality CD write software. Close all other applications on the computer to

ensure reliable CD-R disc recording.

Jpeg files

CD-R and CD-RW with jpeg files. Certain jpeg files, in cluding progressive jpeg files, cannot be read by this unit When composing your title, use 10 characters or less,

and bottom of the screen) or in 16:9.

Additional Information

in full on a 16x9 screen.

no spaces, and avoid the use of special characters including  $(., /, \setminus, =, +)$ The total number of files and folders on the disc

should be less than 650. Make sure that files have the ".ipg" extension. Files without the ".jpg" extension will not be able to be

read by the unit --- even thought the files are shown as ipeg images on your computer.

> Sound Enhancement Systems This receiver is equipped with several built-in sound enhancement systems

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbo DIGITAL are trademarks of Dolby Laboratories.

Dolby Pro Logic

CD-Rs written during a multisession recording can be as TV and VCR. You can use this mode with any stereo program source (such as VCR/TV) to enjoy multi-channel sound experience. Dolby Digital The Dolby Digital mode lets you enjoy full digital surround from software processed in the Dolby Digital format. Dolby Digital provides better

sound quality and a more powerful presence than conventional Dolby Surround. This unit is equipped with Dolby Digital 5.1-channel so that you can enjoy enhanced full digital surround sound. The new system provides stereo separation

of the rear speakers (Rear-Right, Rear-Left). Adding the subwoofer channel to the 5 channels for base sounds (counted as 0.1 channel) results in 5.1 channels (or 6 Channels) that bring you the most sophisticated Dolby Digital sound enjoyment.

#### **Technical Specifications:**

Amplifier Section RMS Output Power: Dolby Digital Mode with 10% Total Harmonic Distortion Rear Channels: 32 Watts/channel (1kH, 4Ω) Front and Center Channel: 32 Watts per channel (1kHz, 4Ω) Subwoofer Channel: 40 Watts (100Hz, 3Ω) Total RMS Output Power, Dolby Digital mode: 200 Watts Muting Attenuation: 70 dB Frequency Response:

200Hz - 20KHz/3dB, 1KHz ref. Subwoofer Frequency Response 20Hz – 200Hz /-3dB, 100Hz ref. Signal to Noise Ratio: 70 dB (Dolby Digital)

AM Tuner Section Frequency Response: 2kHz +/-3dB, 400Hz ref. Usable Sensitivity: 3000uV/m @ S/N 20dB Signal to Noise: 38dB IF Rejection: 35dB FM Tuner Section Frequency Response: 15kHz +/-3dB, 1kHz ref. Ouietina: 24dB The Pro Logic mode uses the built-in circuit to steer the Left, Center, Right and Mono Surround channel Signal to Noise: 62dB(stereo) / 65dB(mono) IF Rejection: 70dB

audio signals and uses all five speakers to play both Dimensions (H x W x D mm) : stereo and Dolby Pro Logic program source, such Unit: 66 x 430 x 240 Front Speakers: 214 x 78 x 69 Center Speaker: 290.5 x 78 x 69 Rear Speakers: 214 x 78 x 69 Subwoofer: 312.5 x 155 x 273.5

AVC MULTIMEDIA ("AVC") makes the following limited warranty. These limited warranties extend to the riginal consumer purchaser and is limited to non-commercial user of the product.

- 18

**Slide Time** 

#### **One Year Parts & Labor Warranty**

**Limited Warranty** 

AVC products purchased in the United States are warranted to be free from defects in materials or workmanship for a period of one year from the date of their original retail purchase. If the unit fails to conform to this warranty, we will service the product using new or refurbished parts and products, at AVC's sole discretion.

During a period of one year from the effective warranty date. AVC will provide, when needed service labor to repair a manufacturing defect at its designated Service Center. To obtain warranty service in the United States, you must first call our Customer Support Center at 1-800-506-5746 or 1-877-252-6873, during the hours listed in the box below. The deternination of service will be made by AVC custom.

PLEASE DO NOT RETURN YOUR UNIT TO AVC WITHOUT PRIOR AUTHORIZATION. New or remanufactured replacements for defective parts or products will be used for repairs by AVC at its designated Service Center for one year from the defective warranty date. Such replacement parts or products are warranted for an additional one year from the date of repair or replacement. The Custome will be required to ship the unit to the Service Center indicated at the time Customer Support is contacted to make the necessary repairs. The customer is responsible for all transportation charges to the service facility

#### Packaging and Shipping Instruction

When you send the product to the AVC service facility you must use the original carton box and packing material or an equivalent as designated by AVC.

#### Your Responsibility

(1) You must retain your bill of sale to provide proof of purchase.

(2) These warranties are effective only if the product is purchased and operated in the U.S.A. or Canada.

(3) Warranties extend only to defects in material or workmanship, and do not extend to any product or parts which have been lost or discarded, or damage to product or parts caused by misuse, accident improper operation or maintenance, or use in violation of instructions provided with the product, or to product which has been altered or modified without authorization of AVC, or to products or parts thereof which have had the serial number removed or changed.

#### Out of Warranty

In the event your product requires repair after the limited warranty period has expired, please contact mer Support Center at 1-800-506-5746, 1-877-252-6873 or www.RCAav.com

Hours: Monday-Thursday: 9am-7pm, Friday: 9am-5pm, Saturday: 9am-NOON Eastern time

#### Important:

You are responsible for any transportation, shipping or insurance relative to the return of the product to our Product Returns Center.

- 22 -

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall AVC be liable for consequential or incidental damages

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within action must be commenced to enforce any obligation of AVC arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to one year from the date of purchase. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you

For more information on other products and services, please contact our web site at www.RCAav.com

mportant: Also keep your "Bill of Sale" as proof of purchase.

Model no	Product name
Type of set	
Serial no	Invoice no
Date purchased	Dealer name

FOR SERVICE AND REPAIR, PLEASE VISIT www. RCAav.com

#### cifications and external appearance are subject to change without notice

Print in China 811-317W91W010

- 20 -

-21