# SAFETY

# WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

#### ATTENTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

LASER: This Digital Video Disc Receiver employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible and invisible laser radiation when open and interlocks defeated. DO NOT STARE INTO BEAM

LASER

Type Wave length Output Power Beam divergence Semiconductor laser GaAlAs 650 nm/780nm 7 mW 60 degree



#### WARNING :

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

#### **CAUTION**:

Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

# CAUTION

**RISK OF ELECTRIC SHOCK. DO NOT OPEN** 

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, with in an equilateral triangle, is intended to alert user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

# CAUTION



INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO LASER BEAM. Introduction

# IMPORTANT SAFETY INSTRUCTIONS

# CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. KEEP THESE INSTRUCTIONS. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit does not contain any parts that can be repaired by the user.

# DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

- 1.Read these instructions After unpacking this product, read the owner's manual carefully.
- 2.Keep these instructions Retain this booklet for future reference.
- 3. Heed all warnings.
- 4. Follow all the operating and other instructions.
- 5. Do not use this apparatus near water.
- 6.Clean only with a damp cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with the manufacturers 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, 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. When 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.
- 11. Only use attachments/accessories specified by the manufacturer.





- 12. 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 cart/ apparatus combination to avoid injury from tip-over.
- 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 whenthe apparatus has been damaged in any way, such as when the 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. Disc Tray Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.
- 16. Burden Do not place a heavy object on, or step on the product. The object may fall, causing serious personal injury and serious damage to the product.
- 17. Disc Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.
- 18. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged.
  - b) If liquid has been spilled, or objects have fallen into the product.
  - c)If the product has been exposed to rain or water.
  - d)if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions.
    Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - e) If the product has been dropped or damaged in any way.
  - f) When the product exhibits a distinct change in performance this indicates a need for service.
- 19.Servicing
  - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

- 20. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21. Safety Check
  - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22.USA & Canada version comply with ETL marking.



23. Subwoofer USA & Canada version comply with UL marking.



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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 intented for home and other limited	Manufactured under license from Dolby Laborat "Dolby" and the double-D symbol are trademan Dolby Laboratories. Confidential Unpublished V ® 1992-1997 Dolby Laboratories, Inc. All rights	tories. ks of Vorks.
viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.	Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216 4,819,098, and 4,907,09 licensed for limited viewing uses only.	13

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to a supply outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# **Player Zones**

For the purpose of distribution of DVD Discs, the world has been separated into 6 zones. The zone your player is intended for is indicated on the "Zone Label" This should be the same as the label on discs available in your region. If you have any difficulty playing a disc, make sure the disc is the same zone as your player.



# Anti-copy Disc Protection

Some DVD discs have anti copying devices.

With these discs the playback on a Television will give the highest quality picture, however, you will not be able to record this signal on a VCR.

# Installation

Install your DVD Receiver on a stable flat surface. There must be sufficient room in front of the receiver for the drawer to be opened and the receiver should be positioned so that it can "see" the remote control. Do not expose your DVD Receiver to extremes of temperature or humidity. Avoid standing it on a hot surface such as on top of other hot running equipment. In a cabinet, allow about 10cm (4 inch) of free space all around the player for adequate ventilation.

\* Caution : Do not install this equipment in confined space with poor ventilation.



# **DVD** Discs

There are several types of DVD Disc.

Single sided discs. Single sided two layer discs. Double sided discs. Double sided with two layers on both sides. These play for approximately These play for approximately These play for approximately These play for approximately

2 HOURS 4 HOURS 4 HOURS 8 HOURS

DVD discs have "Titles" and "Chapters". There can be several Titles on one disc and each Title can contain several Chapters. Titles and Chapters are numbered, e.g. Title 1, Title 2 etc & Chapter1,2,3 etc.

Usually one Title will show the disc publisher and studio logos. Next Title will be the film. Other Titles contain trailers for other films, or the DVD production notes from the film, or alternative endings for the film. There are many possibilities with Digital Versatile Disc.Chapters within the main Title allow you to search quickly for a specific point on the disc. Many discs have a "Chapter Menu" sometimes called "Scene Index" or "Scene Menu" that displays the first shot from each Chapter, which allows you to select a shot and play the disc from that point onwards. DVD discs play multiple languages and multiple subtitles on a single disc. You can select and change the



language and subtitle to suit yourself. You can play the whole disc or just part of it and view it from different angles.

# **Cleaning DVD Disc**

Some problems occur because the disc inside the player is dirty. To avoid these problems, clean your disc regularly in the following way:

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out.
- Do not wipe in a circular motion. Circular scratches can cause picture distortion or render the disc unplayable.

#### CAUTION

Do not use solvents, commercially available cleaners, or anti-static spray intended for analog discs.





# Pack and Pictures of the Whole System

# Check the items of the C220 home theater, they are:

- <A> User Manual
- <B> Leads for connection between TV and DVD Player: <I> - 3 prong RCA Audio / Video Cable
- **<C>** One Remote Control and two batteries
- **<D>** A DVD Player with connected power cord
- <E> AM loop Antenna
- <F> FM Antenna
- <G> Approximately 10 feet Subwoofer connection cable

- <H> Subwoofer
  - I> Two Front Speakers (Left And Right) with red & black connection wire
- <J> One Center Speaker with blue & black connection wire
- < K> Two Rear Speakers with white & black connection wire



# The Remote Control

- 1. <sup>(1)</sup> Power On / Standby Button Switch between Power On and Standby mode.
- 2. -O1 AUX 1 Button Select AUX1 as the input source.
- O<sup>2</sup> AUX 2 Button Select AUX2 as the input source.
- 4. Tuner

Select the Tuner mode.

It can also switch between AM and FM bands.

5. DVD

Select the DVD/CD mode.

- 6. Menu
  - in DVD/CD mode, enter Setup Menu or Disc Contents Menu.
  - in all other modes, enter System Setup : SPEAKER, CLOCK or TIMER.
- I≪/ → Skip Back / Skip Forward Button (DVD / CD mode only)
- Skip to previous or next chapter / track.
  8. (100) / (100) / Tune Up / Tune Down / Fast Forward / Fast Reverse / Menu & Setup Navigation Button
  - in DVD/CD mode, fast forward or fast reverse the disc.
  - in Tuner mode, tune up or tune down.
  - in Tone mode, adjust treble / bass tone level.
  - used during menu and setup navigation.
  - select movement direction in Setup /
  - Disc Contents / Active Navigation menus.
- 9. (I) Slow Reverse / Slow Forward / Menu & Setup Navigation Button
  - in DVD/CD mode, slow reverse or slow forward the disc.
  - in Tuner mode, select a preset channel number.
  - select movement direction in Setup /
  - Disc Contents /Active Navigation Menus.
- 10. Preset / Play / OK / Enter Button
  - in DVD / CD mode, start disc playback.
  - in Tuner mode, enter preset programming mode or to confirm a preset.
  - enter or confirm menu and setup navigation.
- 11. Stop / FM Mode Button - in DVD / CD mode, stop playing the Disc.
  - in Tuner mode, select Mono / Stereo.
- **12.** II Pause (DVD/CD mode only) Freeze the picture and sound.
- **13.** A Index Menu ButtonDisplays the Index Menu.(RDS Search is for Europe version only)
- 14. 👛 AB Repeat / CD Program Menu
  - in DVD/CD mode, set the limits for section repeat.
  - In CD mode, display the Audio CD program Menu.
  - (RDS Display is for Europe version only)
- 15. (+) / (-) Master Volume Button Increase or decrease the volume.



- 16. Tone
  - Select Bass / Treble adjustment mode.
- 17. Mode

Select surround modes or soundfield modes.

- Active Navigation Button (DVD / CD mode only)
   Enter or exit Active Navigation Menu.
- 19. Exit
- Leave the Setup Menu or System Setup.
  20. Title (DVD mode only)
  - Display the Title Menu if present on the disc.
- 21.  $(z_z)^2$  Sleep Set the sleep (auto-off) timer function.
- 22. Number Keys (0-9) For direct access of preset channels and used in Disc Player menus.
- 23. X Mute Button Mute and unmute the sound.
- 24.  $\triangleq$  Eject Button (DVD / CD mode only) Open or close the disc tray.
- **25.** Dimmer Button Dim the display screen.

# Front Panel



- 1. Power On / Standby Button Switch between Power On and Standby Modes.
- 2. Standby LED Indicator Indicate standby mode.
- 3. Disc Tray
- 4. IR Receiver Infrared Sensor for remote control.
- 5. Vacuum Fluorescent Display Display details for user's information.
- 6. DVD Button Select the DVD/CD as the input source.
- 7. -O1 AUX 1 Button Selects Auxiliary source 1 as the input source.
- 8. Volume

Used to adjust the master volume. Turn clockwise to increase the volume and anti-clockwise to decrease.

9. -O2 AUX 2 Button

Selects Auxiliary source 2 as the input source.

10. Tuner Button

Select Tuner as the input source. It can also switch between AM and FM bands.

- 11. Stop Button (DVD/CD mode only) Stop playing the disc.
- **12.** II Pause Button (DVD / CD mode only) Freeze the picture and sound.
- 13. > Play / Preset Button
  - in DVD / CD mode, used to start disc playback.
  - in Tuner mode, used to select preset channel mode.

# 14. ► Frequency ▲ (Up)/ Skip Forward Button

- in DVD mode, used to skip to next chapter / track.
- in Tuner mode, used to tune up. When the preset function applied, you can search upwards to select the channel you want or start the preset programing mode.

# 15. I Frequency ▼ (Down)/ Skip Back Button

- in DVD mode, used to skip to previous chapter / track.
- in Tuner mode, used to tune down. When the preset function applied, you can search downwards to select your target channel or start the preset programing mode.

### 

Open or close the disc drawer.

# Rear Panel



# **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 of the system.

### 1. Audio Output

For connecting analog (Left / Right) signals to external recording devices such as VCR or Tape Recorder.

### 2. Audio Input

For connecting analog (Left / Right) to the corresponding AUDIO OUT jack on a AUX1 or AUX2.

### 3. Digital Coaxial Output

For connecting to external equipment that has a digital coaxial in jack.

#### **Digital Optical Output**

For connecting to external equipment that has a digital optical in jack.

#### 4. FM Antenna

For FM reception, connect the FM antenna to the FM jack. Move the antenna in various directions until the clearest signal is received.

#### AM Loop Antenna

For AM reception, connect the AM loop antenna to the AM jack. Position the loop antenna to receive the clearest sound.



• Fully insert the stripped portion of the antenna into the terminal as shown above. *Note:* 

### - Position the antenna as far as possible from a TV, VCR or other radiation source.

- 5. Component Video Out
- 6. S Video Out

For connecting to the S-VIDEO IN jack on the TV using an optional S-Video cable.

# **Rear Panel**

### 7. Video Output

For connecting to external equipment with video in jacks: **REC** - Connect to VCR or other recording device. **TV** - Connect to TV or Monitor

### 8. Video Input

For connecting video to the corresponding VIDEO OUT jack on AUX1 or AUX2.

### 9. Surround Speaker

Connect the left surround speaker to "SL" terminals and right surround speaker to "SR" terminals. Connect the colored wire to "+" and black wire to "-" . (8 Ohm recommended).

### 10. Front Speaker

Connect the left front speaker to "L" terminals, right front speaker to "R" terminals and center speaker to "C" terminals. Connect the colored wire to "+" and black wire to "-". (8 Ohm recommended).

### 11. Subwoofer Out

For connection to audio output jack of the powered subwoofer.

After completing all the connections, connect the AC power cord of the player and subwoofer to the wall outlet. To switch on the subwoofer, rotate the VOLUME knob at the front panel of subwoofer clockwise until you hear a click.

### 12. Power Cord

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# Front Panel of the Subwoofer



- Standby Indicator Red light indicates Standby Mode. Green light indicates Power On.
- 2. Power On/Off and Volume Control For adjusting the volume of subwoofer during Power On. Turn clockwise to increase the volume and anti - clockwise to decrease.

# Rear Panel of the Subwoofer



- 1. Subwoofer Input Jack For receiving signal from the amplifier.
- 2.  $0^{\circ}$  Phase 180°

Use PHASE SELECTOR located at the rear of the subwoofer to select the phase polarity. Selecting the polarity at either 0° Phase 180° may determine better bass reproduction effect in certain listening environments (depending on the type of front speakers and the position of the subwoofer). It also may change the expanse and tightness of the sound, and affect the feeling of the sound field. Select the setting that provides the sound you prefer when you are in your normal listening position.

3. Power Cord

# Setup and Installation

If you want to connect your TV, VCR, or CD Recorder to the system, the following diagrams are used to show the setup and installation.

### Important

Make sure the AC Voltage matches your local voltage. Connect the AC cord only after speakers, antennas, and all optional equipment connected.

### (1) Video Connections



# (2) Analog Audio Connections



# (3) Speaker connections

# Before Connecting

Refer also to the instruction manual of the speakers.

This DVD Receiver is designed to reproduce optimum sound quality when speakers with the specified impedance are connected. All speakers are designed for 8 Ohms.

Maintain correct polarity when connecting speakers (colored wire for positive and black wire for negative). To prevent damage to circuits, never short-circuit the positive and negative speaker output terminals. **Connection** 



The above connections can be expressed by a table as follows:

Number Item	1	2	3	4	5					
Speakers	Front Left	Front Right	Center	Surround Left	Surround Right					
Connections	То	То	То	То	То					
Terminals	L	R	С	SL	SR					
Wire for Connections		Colored wire to "+" & Black wire to "-"								

Press the button down & put the wire in, then release the button.



Connection of 5 speakers is the same.

Black Wire

### Speaker Placement

Placement of speakers play an important role in the reproduction of surround sound. Particular attention should be taken when designing the speaker layout. For the best surround effects, all speakers should be installed. If center speaker or subwoofer is not connected, the sound from the unused channel will be distributed to the connected speakers in order to reproduce the best possible surround sound.



A typical room layout will have the left, center, and right speakers across the front and the left surround and right surround speakers along the sides towards the rear as shown in the above left picture. The center speaker can be above or below the video screen or TV. A subwoofer with built-in power amplifier can be installed for powerful bass sounds and can be positioned anywhere in the room.

The 'speaker to listener dimensions' shown in the above right picture is used for proper setup of the surround system (see speaker distance setup above).

### Note:

- Do not connect more than one speaker to any one pair of +/- speaker terminals.
- Do not connect speakers with an impedance lower than the speakers supplied.

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# Speaker Setup

Before operating your system, you will need to setup the speaker configuration and the distance from the listening position to each speaker. For Speaker Setup in DVD mode, refer to "DVD/CD operation - Audio Set".

Note: It is only necessary to set the parameters once unless you change the speaker configuration.

# Setting the speaker size

1. Press MENU to enter System Setup mode.



2. Press OK to select Speaker setup.



3. Press OK to select Speaker Size Setup Mode.



- 4. Use TUNE  $\rightarrow$  /  $\triangleleft$  to adjust the setting.
- 5. Use  $\triangleleft/\triangleright$  to select a different speaker.
- 6. Press OK to save these setting or Press EXIT to leave setup mode.

# Setting the speaker distance

1. Press MENU to enter system setup mode.

	PRO LOGIC				
(SUB) C		 		 	
	1				

2. Press OK to select Speaker Setup.

	PROLOGIC				
( SUB )					
LCR			 		
		·	 		

3. Press ◀/ ▶ until Speaker Distance Setup is selected.

( SUE )		PRO Logic							
Press OK	to er	nter	Speal	ker D	istar	ice S	etup	Mode.	
		(PRO )							

		LOGIC					
( SIII: )							
A	:			0 20	 :	:	
	·	· · · · · ·	2 2	*******			

- 5. Use  $\triangleleft$  /  $\triangleright$  to select a different speaker.
- 6. Use TUNE  $\rightarrow$  /  $\triangleleft$  to adjust the distance to match as close as possible to the actual distance.
- 7. Press OK to save these settings or Press EXIT to leave setup mode.

# Setting each speaker's relative volume balance

Note: Please sit at your usual listening position to correctly setup the speaker balance to match each other.

1. Press MENU to enter system setup mode.



4.

2. Press OK to select Speaker setup.

( )	LOGIC				
( SUB ))					
LCR					
		1	:	1	
ົລ ເ		· · · · ·		24	
an" "aa			1	1	
SLÍSR					·

3. Press ◀ / ▶until Speaker Level Setup is selected



4. Press OK to enter Speaker Level Setup Mode.



- 5. Use  $\triangleleft$  b to select a different speaker.
- 6. Use ► / ◀ to adjust the level of a particular speaker until it matches the other speakers.
- 7. Press OK to save these settings or Press EXIT to leave setup mode.
- 8. For DRC setting, you may refer to GB26.

# **Basic Operations**

### Selecting the source

Press one of the input selector buttons below to select the input source:

- <b>-</b> O1	•			•
(SUB) JCR SI SE	PRO LOGIC			
02	(PRO			
(SUB) LC C C C C S C S C	PRO LOGIC			
- TUNER				
(SUB) LCC SUC SUC SUC	PRO LOGIC		PRESET	
- DVD				
(SUB) C C R J C R J C R S C S				

# Adjusting the Master Volume

The master volume adjusts all channels at the same time:

- 1. Press the master volume 4/7 on the remote OR
- 2. Rotate the master volume knob on the front panel.

	PROLOGIC		
(SUB) L C R			i i
SLÍSR		<u> </u>	<u> </u>

# Adjusting the Tone

The tone controls only affect the front left and right speakers. 1. Press TONE once to select Bass adjustment.



2. Press TONE again to select Treble adjustment.



- 3. Press TONE for the third time to exit or wait a few seconds for it to time out.
- 4. While in Bass or Treble adjustment mode, press TUNE ►/ ◄ to adjust the level of Bass/Treble at the output.

# Muting the Sound

1. Press MUTE to mute the speaker output. The 'MUTE' icon will appear on the display.

MUTE			
SUB			
LCR		<b>.</b>	
SL SR		<u> </u>	

2. Press MUTE again to restore the speakers output. The 'MUTE' icon will disappear from the display.

# Dimming the Vacuum Fluorescent Display

- 1. Press DIMMER 🗊 on the remote will dim the display by one-third.
- 2. Press DIMMER D on the remote again will dim the display further by another one-third.
- 3. Press DIMMER D on the remote for the third time will return the display to the original brightness.

# Selecting Output Modes

The number of output modes varies according to the system setup and the input source. A list of all output modes are shown below:

Dolby Pr	0 LO			unu						
(SUB) LCR JCR ST ST	 									
Dolby 3	Stere	<b>eo</b>								
		PR0 Logic								
(SUB) LCR JUL			I							
Stereo										
(SUB) L R										
Digital S	Sound	lfield	Sim	ulati	ion -	Stad	lium,	Stage,	Hall,	Disc
( SUB )		PR0 Logic							SOUI	ND FIELD

The available output modes can be selected using the SURROUND key, which will cycle through the available modes. See Surround Sound section for further information.

-	Stage		PR0 LOGIC	 		 SOUND FIELD
				 		 STAGE
-	Hall		PR0 LOGIC			(SOUND FIELD)
		(SUB) L E J E SL SR				 HALL
-	Disco		PRO Logic	 		 SOUND FIELD
		(503) L (R ) (R ) SI SI		I	 	DISCO
-	Live	·>	PR0 Logic			(SOUND FIELD)
		(503) L [3 S1 [5] S1 [5]				 LIVE

# Surround Sound & Sound Effects

# Vacuum Fluorescent Display Surround Indicators



Note : For proper surround sound make sure the user has followed the setup and installation procedure fully.

### **Dolby Digital Surround**

The Dolby Digital Surround system requires all 5 speakers (front left, center, front right, surround right, surround left) for correct surround sound reproduction. This 5.1 channel digital surround format allows for five individual full-range (20Hz-20KHz) channels plus an LFE (Low Frequency Effects) channel for the low-range (20Hz-120Hz) effects. It creates a realistic sound similar to theaters and cinemas. A large proportion of DVD discs use this system for sound.

### **Dolby Pro Logic Surround**

The Dolby Pro Logic Surround system is a specially encoded two channels analog format which will produce 4 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 channels (Front Left & Right) of sound.

### Dolby 3 Stereo

Dolby 3 Stereo produces three channels (front left, center, front right) of sound from a two channels analog signal. It is not a surround format so it does not require surround speakers.

# Soundfield Effects

The digital Soundfield Effects can recreate the effects of sounds reflected from walls or ceilings to obtain the sound presence of real environments.

- Stadium
  - This mode recreates a large stadium using very long reverbersation times.
- Stage
  - This effect recreates a stage environment, emphasizing sound from the front speakers.
- Hall

This surround effect recreates a hall using lots of reflections. Suitable for orchestral music such as classical and opera.

- Disco

This surround effect generates a feeling of being in a disco or club. It is suitable for all types of music that are played in disco.

- Live

This soundfield effect is suitable for all types of music.

GB

# **Radio Operations**

# Tuner Vacuum Fluorescent Display Indicators



# Tuning

### Manually

1. Press TUNER to select tuner mode.

	PRO						
( SHE )							
			1 1	18 I	:	· · · · ·	
306		:	1 1	11 1	÷	1I	
) (C		-		1.11			
SLÍSR				1 11	· · · · · · ·	1.1	

2. After two seconds the display will change to show the current band and frequency.

	PRO LOGIC			<b>«\</b> »	STEREO	
(SUB) LCR	R #	174		<u> </u>		
<u> </u>			•••••			MHZ

- 3. If necessary, press TUNER again to switch between AM and FM band.

### Automatic tuning

1. Press TUNER to select tuner mode.



2. After two seconds the display will change to the current show band and frequency.

	PRO			《平》	<b>STEREO</b>	
( SUB )						
LCR	E 8 8		177			
<u> </u>		÷				
SL SR			<u> </u>	 121	1 <u></u> 1	MHZ

- 3. If necessary, press TUNER again to switch between AM and FM band.
- 4. Press and Hold the TUNE → or TUNE ← for more than one second to activate auto tuning mode. When a station is reached, auto tuning stops.

### Tuning to a weak FM stations

1. Press TUNE ►/ ◀ keys to tune in a weak FM station manually.

	PRO LOGIC	⊂@♥ Ď=stereo<
( SUB )		
LJCB		
ត ត		. MHZ

2. Press FM MODE on the remote control to switch to Mono mode. This will reduce the background noise and make the station easier to hear.



# **Preset Stations**

When a preset station is selected, the preset number will appear next to the frequency on the display.

#### **Selecting Preset Stations**

1. In tuner mode, press TUNER button to switch between AM and FM band if necessary.



2. Press PRESET, then use ► / ◀ on the remote control to select desired preset station or use the remote's direct access numeric keys.



#### Storing Preset Stations

The unit can store up to 20 stations in the FM waveband and 20 stations in the AM waveband.

1. In tuner mode, press TUNER button to switch between AM and FM band.



2. Press the TUNE >> / << button to Tune in the desired station.



3. Press and Hold PRESET until 'PRESET' icon flashes.



4. Press  $\triangleleft / \triangleright$  to select the preset channel number or Use the remote's direct access numeric keys.



5. Press PRESET once more to store into memory. The display will show briefly the characters 'STORED' before changing to the display below.



# **Clock & Timer Functions**



#### Clock

#### Setting the Clock

- 1. Start in either AV1, AV2 or TUNER mode (Timers cannot be set in DVD model).
- 2. Press MENU button (Remote Control only) and also press ◀ / ▶ until Clock SETUP Mode is selected.



3. Press OK, use TUNE ►► / ◄ to change between 12 and 24 hour mode.



4. Press OK. When the two hour digits flash, useTUNE ▶ / ◀ to set the hour.



5. Press  $\rightarrow$  /  $\triangleleft$  to change the minute field and the two minute digits will flash.

	N 7
(SUB)	

- 6. UseTUNE  $\blacktriangleright$  /  $\triangleleft$  to set the minute.
- 7. Press OK to confirm the setting and return to normal mode.

# **ON/OFF** Timer

#### Setting the ON/OFF Timer

1. In AV1 / AV2 or TUNER, press Menu button.

		PRO Logic						
	(SUB) L C R							
	<u>्रेल्ट</u> बाँबा	·						
2.	Press ◀/▶			ip Moo	de is s	selec	ted.	
		PRO Logic						
	(SUB) L C R		n. n		,			
	51 51							
3.		then use	e <b>∢ / ▶</b> to	choo	se Or	n Tim	e or Off Time.	
3.	Press OK,	then use	e <b>∢</b> / ▶ to	choo	se Or	ר Tim	e or Off Time.	
3.			e <b>∢</b> / ▶ to	choo:	se Or	ר Tim	e or Off Time.	
3.			e <b>∢ / ▶</b> to	choo	se Or	ר Tim	e or Off Time.	

- 4. Press OK to enter Set Time mode.
- 5. Set Time (refer to GB19 of "Setting the Clock") and press OK to confirm the setting.



6. Press OK to exit, and return to the last source.

# Sleep Timer

#### Setting the Sleep Timer

- This feature allows you to select a time after which the system will switch to the standby mode automatically.
- 1. Press SLEEP button on the remote control repeatedly to cycle through the sleep timer's times.
  - The available sleep times are :

90 mi	nute	$S \rightarrow$	60 m	inute	$es \rightarrow 30$	0 minute	$es \rightarrow $	15 minu	$tes \to OFF$
		PR0 LOGIC							
( SUB )					SLEEP				
L									
50 SR									

2. The 'SLEEP' icon will appear when the Sleep Timer is on. Checking Sleep time remaining

#### Checking remaining to sleep

When the Sleep timer is switched on, you can check the remaining time before the unit switches to standby mode.

Press SLEEP once, the remaining time will be displayed.

#### Cancelling the Sleep Timer

To switch off the Sleep Timer, press SLEEP repeatedly until "OFF" is displayed.



# On Screen Messages

During Play, various messages will be shown on the screen for a few seconds to confirm that a function has been selected. You can turn these messages on or off in the 'On Screen' section of the setup menu.

The messages, which may appear, are listed below:

PLEASE WAIT	The system is initializing
READING	
TRAY OPEN [ 🛆 ]	0
TRAY CLOSE [♥]	
DVD	5
MUSIC CD	
	. Wrong disc format or damaged disc that cannot be played,
NO VALID DISC	
	disc upside down or no disc in the tray.
INVALID REGION DISC	. The disc cannot be played because regional code is different
	to the player.
	The parental control has been set and the disc cannot be played.
PAUSE [ ] ]	
STEP FWD [	
STEP BWD [ <b>4</b> ]]	
	. Stop the disc but allow the disc to be resumed from the same place.
STOP [ ]	
[Ø]	
NEXT CHAPTER [ 🍽 ]	
PREV CHAPTER [ 🖊 ]	
FAST FWD [▶1]	. Fast forward speed 1.
	(For DVD up to speed 4, For CD up to speed 3).
FAST BWD [ <b>4</b> 1]	. Fast backward speed 1.
	(For DVD up to speed 4, For CD up to speed 3).
SLOW FWD [№1]	. Slow forward speed 1.
	(For DVD up to speed 4).
SLOW BWD [41]	. Slow backward speed 1.
	(For DVD up to speed 4).
FAST MOTION	. Fast motion for skip forward button is selected (Panel controls).
SLOW MOTION	. Slow motion for skip backward button is selected (Panel controls).
MUTE [ 🖂 ]	. The sound is muted.
UNMUTE [ 📢 ]	. Sound mute is cancelled.
SKIPPING BAD DISC AREA	. There is a damaged section of the disc that the player can skip over.
TRACK : 1	. Track selection with a number key (Music CD).
SKIP NEXT [ 附 ]	. Skip to start of the next track (Music CD).
SKIP PREV [ 🙀 ]	. Skip to the start of the previous track (Music CD).
STAND BY	. Entering standby mode.
POWER ON	. Switch on from stand by.
BUTTON : 2	. Indicates a menu selection using the number keys.

# Playing a DVD Disc

To play a DVD disc, open the drawer using the panel control or the remote control.

Insert the disc with the title side up.

Close the drawer using the panel key or the remote control.

There will be a short delay while the player identifies the disc and reads the menu from the disc.



The florescent display on the front of the player will indicate DVD.

Some discs will play automatically, others will display the disc menu. If the menu is presented, select "Play film" using the menu navigation keys and then press OK.

# When the DVD is playing

### Skip

Skip forwards, or skip backwards a Chapter by pressing the 💌 💌 Keys. Each press will jump to the beginning of the next or previous chapter.

# Fast-Search

Fast-forward or reverse by the → keys. There are 4 speeds. Each press increases the speed. You need not hold down the key. ↓ 1 → ↓ 2 → ↓ 3 → ↓ 4 → ↓ 1

or  $41 \rightarrow 42 \rightarrow 43 \rightarrow 44 \rightarrow 41$ 

or √√1→√√2→√√3→√√4→√√1

keys. There are 4 speeds. Each press reduces

# Slow Motion

Play slow motion forward or backward using the the speed. You need not hold down the key.

Note: There is no sound in Fast-search and Slow Motion modes.

### Normal Play mode

To revert to normal speed with sound, press the ►[OK] key.

### Disc Menus

Press the menu key while the disc is playing and the disc menu will be displayed. You can navigate with the remote control navigation keys  $\alpha$  and select a feature with the  $\blacktriangleright$  [OK] key.

### Pause

This temporarily stops the disc. The picture freezes and there is no sound. To start playing the disc again, press  $\blacktriangleright$  [OK], the disc resumes playing immediately. If you press Pause again (while paused) - the next frame of the movie will be shown.

# Stop (and Resume Stop)

When pressed once the player goes into Resume Stop mode. In this mode the film can be resumed from the stop point by pressing  $\blacktriangleright$  [OK]. In Stop mode you can display the Setup menu. If the STOP key is pressed twice, the player goes into Stop mode. When  $\blacktriangleright$  [OK] is pressed the disc will start from the beginning.

# Active Navigation [DVD]

To display the control bar, press on the remote control. The control bar will be displayed across the top of the screen. This control bar allows you to change settings (such as the audio language) while the disc is playing, without interrupting the film.



keys

Navigate across the bar using



Select the title you wish to play on multi-title DVDs. Press  $\longrightarrow \longrightarrow \longrightarrow$  to select a title and press  $\blacktriangleright$  [OK]. The new title will be displayed on screen and also be shown on the florescent display, along with the corresponding time on screen.



Select the chapter you wish to play on multi chapter DVDs. Press  $\longrightarrow$  ( $\checkmark$ ) to select a chapter and press  $\blacktriangleright$ [OK]. The new chapter will be displayed on screen and also be shown on the florescent display, along with the corresponding time on screen.



Time search. This enables you to select and play the film from any point, the indicated figure is the elapsed time for the currently playing title. Input a time using the number keys and press  $\blacktriangleright$  [OK]. The film will play from the associated time. The associated Chapter and time will be displayed on the florescent display.



This selects the audio track. Press the  $\checkmark$  keys to cycle through the sound tracks available on the disc. To select a sound track press  $\blacktriangleright$  [OK]. There could be 2 channel and 5.1 channel Audio available. There could also be alternative language tracks. All discs are different in this respect.



This allows you to select between available subtitle languages or turn the subtitles off. Pressing the  $\clubsuit$  keys allows selections to be displayed. To select press  $\blacktriangleright$  [OK].

Press Right ) when the subtitle is highlighted to go to the second part of the Active Navigation Bar or

press () to go directly to the second part of the Active Navigation Bar.





Allows you to view the screen from different angles. This is only available on some discs. Check for this icon on the back of a DVD when purchasing.



This allows you to inhibit the command responses in the top corner of the screen, eg Stop, Play, which are displayed momentarily when a remote key is pressed. To suppress these responses select "OFF" by pressing  $\blacktriangleright$ [OK].



A-B Repeat allows a passage to be repeated continuously. Press  $\blacktriangleright$  [OK] at the start of the required passage, then press  $\blacktriangleright$  [OK] again at the end of the passage. The passage will now be repeated continuously. To revert to normal playing, press  $\blacktriangleright$  [OK] again.



Allows the display area to be increased or decreased in size. Press  $\blacktriangleright$  [OK] to toggle between 1.0x, 2.0x and 0.5x.

Note: When the selection is completed, EXIT the Navigation Bar by pressing 🗇 or "EXIT".

# Playing a Music CD

To play a music CD, insert it in the drawer with the title side up and the playing side down. Press close  $\triangle$ . When the OSD displays "Music CD", press  $\blacktriangleright$ [OK].

GB

# When the Music CD is playing

### Skip

Skip forward, or skip backward by pressing the 💌 💌 Keys. Each press will jump to the beginning of the next track or previous track. If RANDOM mode is selected, skip will jump a RANDOM number of tracks.

#### Fast-Search

Fast-forward or reverse by the keys. There are 3 speeds which each press increases the speed until the maximum speed is reached. You need not hold down the key.

#### Normal Play mode

To revert to normal speed, press the 🕨 [OK] key.

#### Pause

This will stop the CD and mute the sound. Press  $\blacktriangleright$  [OK] or Pause II to resume playing from the point that it was paused.

#### Mute

This will mute the sound, but the disc continues to play. When you unmute the sound (press again), a later passage will be playing.

#### Number Keys

The number keys allow you to select a track directly, input the track number required.

# Active Navigation [Music CD]

To display the control bar, press 🗇 on the remote control. The control bar will be displayed across the top of the screen.



Navigate across the bar using





Selects the track. Press  $\checkmark$  to select a track and press  $\triangleright$  [OK]. The new track will be played and also be shown on the florescent display along with the corresponding time. The time displayed for Music CD is the elapsed time of the track, not for the whole CD.



Time search. Input a time using the number keys and press  $\blacktriangleright$  [OK]. The disc will play from the indicated time and the associated track and time will be displayed on the florescent display.



A-B Repeat allows a passage to be repeated continuously. Press  $\blacktriangleright$  [OK] at the start of the required passage, then press  $\triangleright$  [OK] again at the end of the passage. The passage will now repeat continuously. To revert to normal playing again press  $\blacktriangleright$  [OK] again.



This is a track repeat. When it displays "1", the current track will be automatically repeated. "ALL" means the whole CD will be played. To change between "1" and "ALL" press ▶[OK].



When the Random selection is switched on, track selections will be made at random, and not in a sequential manner.



This icon allows you to inhibit the command responses on the top corner of the screen, e.g. Stop, Play, which are displayed momentarily when a remote key is pressed. To suppress these responses, select "OFF" by pressing  $\blacktriangleright$  [OK]

Note: When the selection is completed, EXIT the Navigation Bar by pressing 🗩 or "EXIT".

# Setup Menu

### To access the setup menu the disc must be in STOP mode.

Press MENU to display the setup menu.

Navigate using the remote control Navigation keys. Select options using the  $\blacktriangleright$  [OK] key. The selections are the preferred options that will be chosen if they are available on a disc. If the disc

does not have the preferred option then the discs own preference will be used.



GB

# TV Aspect

L-Box means "Letter Box". The picture will be displayed as with black bars at the top and bottom of the screen. Some DVD's are widescreen, multi or standard format & may not be supported by this feature. Please see DVD covers to find its format.

P-Scan means "Pan and Scan". The picture fills the whole screen, however some portions at left and right may not be visible. The picture will automatically Pan and Scan to left and right to center the most important part of the picture. Not all discs support Pan and Scan, so the letterbox display may remain even though P-Scan





Digital	Out
---------	-----

To set up the Digital Audio output to a 5.1 Receiver/Decoder. This menu enables you to set the type of 5.1 output according to your Decoder/Amp. The form of each type of Data (Dolby Digital, MPEG or DTS) can be set as Bitstream or PCM format to suit your Dolby & DTS decoders.

# Parental Control

DVD discs have a parental level assigned to the disc. The range of parental controls are from 1 to 8.

The player can be set in a similar way. If the player's parental level is set to 8, it will play all discs. If the player's parental level is set below 8, only discs with a lower or equal parental level will play.

For example, if the player is set to 5, only discs with parental control ratings of 5,4,3,2, & 1 will play. To play a higher rated disc you must change the player's rating to a higher number.

Alternative scenes with lower rating are included. The player plays the highest rated scene that the parental setting allows. For example, consider a disc which is generally suitable for most audiences, and is rated as level 2 for the most part. However, in the middle there are also scenes rated at 5 & 7 (not suitable for children)



#### The Player

#### Parental Level Set to 1

The player's behavior depends on the setting in the parental menu.

Player does not play the disc and display "Parental Level too low to Play"







A section of the disc can have several different sequences which vary in parental control level. In the above example of a disc with parental control, the player will show a different section depending on the parental control level set in the player's menu.

In this way, parents can control the content of films and there is no indication that any censorship has occured.

The meaning of the levels 1 to 8 varies depending upon the country and the type of content of the disc.

**The player is delivered without a password.** When you set the parental level for the first time you are invited to enter your own password. (e.g. 1, 2, 3, 4). This becomes the password for the player. **You must know this password in order to change it.** Some films do not have parental control, the disc will play regardless of the player setting.



Some films do not have parental control assiged and will play irrespective of the player setting.

A second method of parental control is also available in the PANEL KEYS option. Set panel keys to OFF and the player can only be operated by the remote control. Now the player can only be used by someone with access to the remote control.



# **On Screen**

During playback, various icons and messages will be shown on the screen for a few seconds to confirm that a function has been selected. You can turn these messages off or on. A full list of these messages can be found on page GB21.

On Screen			
	$\sim$		
[On Screen]			[Off]
On screen	On screen		0
•	Off Return	•	On Off Return
Select on-screen option	- Choose 🕒 - Enter 💷 - Exit		Coco- Choose - Enter - Exit
			X 1 [Return]
	0 m screen		(22) 전 (23) 22 (23) 2
			On Off Return
	Select on-screen option		🖙 🖙 - Choose 🕞 - Enter 📧 - Exit

# Program-Music CD

To display the CD program menu, the player must be in CD mode and the disc must be in STOP mode. Press "CD PROGRAM" (a) on the remote control and the CD program menu will appear. To put the player into CD mode, insert an audio CD and close the drawer. The player will go into CD mode when it identifies the disc.



# Index (DVD)

Example showing how to set an Index marker. Press the Index 🝙 key while the disc is playing, the film will pause and the index will be displayed. There are totally ten index marker settings. Each index marker can be reached by pressing the scan forward or backward button. Index 🝙  $\int X 2$   $\longrightarrow$   $\bigcirc$ 

1         2         3         4         5         6         7         8         9         10           Disc Name : No Entry Title : XX         Title : XX         7         7         8         9         10           Chapter : XX         Title : XX         7         8         9         10           Title : XX         Time : XX.XXXXX         7         8         9         10	1         2         3         4         5         6         7         8         9         10           Diss Name : No Entry         Title : XX         Title : XX         Chapter : XX         Time : XXXXXXX			1         2         3         4         5         6         7         8         9         10           Disc Name : THE MATRIX 16X9LB N AMERICA Title : 01         Title : 01         1
() ) - Choose - Add - Del - Play - Exit		Choose - Add - Del - Choose - Play - Exit		Regli - Scegli - Agg - Canc S - Play Esci

Example showing how to play for an indexed poin Index	t.	X2 > 💌
I         2         3         4         5         6         7         8         9         10           Disc Name : No Entry Title : XX Chapter : XX Time : XX.XXLXXX         Time : XX.XXLXXX         Time : XX.XXLXXXX         Time : XX.XXLXXXX         Time : XX.XXLXXXXX         Time : XX.XXLXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	•	I         2         3         4         5         6         7         8         9         10           Disc Name : THE MATRIX 16X9LB N AMERICA         Title : 01         Chapter : 05         Time : 00.13.28
Choose - Add - Del - Play - Exit		Image: Constraint of the second se

# MP3 CD Play

WF3 CD Flay		
Turn on your DVD player and place MP3 CD into the disc tray and close the tray. A MP3 player panel will		
appear on the TV screen and the first track selection will begin to play automatically .		
MP3 Player		
12 1/165 TRACK1~4		
11 1:34 secs 44 kHz 128 kbps J-Stereo 2		
(1) Songs name (when available).		
(2) Audio mode (stereo or mono).		
<ul> <li>(3) Sampling rate.</li> <li>(4) Responds to the " r key - use to edit the song list.</li> </ul>		
(5) 💌 Responds to the " 🛏 " key - use to skip to the next track.		
<ul> <li>(6) ■ Responds to the "■ " key - use to stop playback.</li> <li>(7) ▶ Responds to the "▶ " key - use to start playback.</li> </ul>		
<ul> <li>(8) Responds to the " II " key - use to pause playback.</li> <li>(9) Responds to the " Key - use to skip to previous track.</li> </ul>		
(10) Playing elapsed time per song.		
<ul><li>(11) Sampling frequency.</li><li>(12) Playing song and the total number of the song list.</li></ul>		
When listening to a MP3 disc, you can Pause / Stop / Skip /Play the song by manipulating the above functions. You can directly select any song of the list by pressing the numeric keys of the remote control and ().		
Tou can directly select any song of the list by pressing the numeric keys of the remote control and S.		
MP3 Song Selection List Screen and Disc Browser Screen		
This screen displays the List of Songs that can be played.		
Selected Song		
Selected Solid Play New		
Not Selected Song		
Sel All Remove		
When you first load a disc, every song on the disc will be placed in this Song Selection List, and all will be		
selected for playing.		
You can change the selection by highlighting the song and pressing ().		
Disc Browser Screen You can create your own MP3 Song Selection List using the Disc Browser.		
MP3 Disc Browser		
Albums Tracks		
Choose Select Play		
This screen shows all the Albums and Tracks on the disc and lets you choose which ones you want in the		
Song Selection List.		



# Playing a MP3 Disc

From the MP3 Disc Browser, you could choose your favorite songs. For the sake of the user's convenience, a particular disc named 010315\_1 is used for illustration.





# Select All and Remove Your Song



GB

# Problems ?

If it appears that your DVD-Video player is faulty, first consult this checklist. It may be that something simple has been overlooked.

Under no circumstances should you try to repair the player yourself; as this will invalidate the warranty. Only qualified service personnel can remove the cover or service this player.

### NO POWER

- Check if the on/off button on the front of the unit is set to on.
- Check if power plug of the mains cord is properly connected
- Check if there is power at the AC outlet by plugging in another appliance.

### NO PICTURE

- Check if the TV is switched on.
- Select the correct AV input on the TV.
- Check the video connection.
- Check if channel selector is set to AV on the TV (See your TV manual for instructions).

### DISTORTED PICTURE

- Check the disc for fingerprints and clean with soft cloth, wiping from centre to edge.
- Sometimes a small amount of picture distortion may appear. This is not a malfunction.

#### COMPLETELY DISTORTED PICTURE

• The disc format is not according to the TV-set used (PAL/NTSC).

#### NO COLOR IN PICTURE

- The disc format is not according to the TV-set used (PAL/NTSC).
- Ensure DVD player is not connected through VCR.

### DISC CANNOT BE PLAYED

- Ensure the disc label is facing upward.
- Clean the disc.
- Check if the disc is defective by trying another disc.
- Due to the reason of incapability, some discs can not be read by our MP3 Player (Please refer to page 37 for further information).

#### NO SOUND

- Check audio connections.
- If using a HiFi amplifier, try another sound source.
- Check that DTS is selected in the Audio Menu if a DTS disc is played.
- Ensure there is a DTS decoder connected when selecting DTS.

# NO RETURN TO START-UP SCREEN WHEN DISC IS REMOVED

- Check to see if the program requires another disc to be loaded.
- Reset by unplugging the unit from the power, then connect the power again.

# THE DVD RECEIVER DOES NOT RESPOND TO THE REMOTE CONTROL

- Aim the remote control directly at the sensor on the front of the player.
- Avoid all obstacles which may interfere with the signal path.
- Inspect or replace the batteries.

### DISTORTED OR B/W PICTURE

• The disc format is not according to the TV-set used (PAL/NTSC).

### NO AUDIO AT DIGITAL OUTPUT

- Check the digital connections.
- Check the Digital Out menu to make sure that the digital output is correctly set.
- Check if the audio format of the selected audio language matches your DVD receiver capabilities.

### **BUTTONS DO NOT WORK**

• Unplug the player from power outlet and reconnect after a few seconds.

#### YOU HAVE FORGOTTEN THE PASSWORD

 Press the PAUSE key on the front panel while inserting the power plug to the power outlet.
 For models without PAUSE key on the front panel, press key on the panel while inserting the power plug to the power outlet.

#### THE DISC IS STUCK INSIDE THE PLAYER

 Press () power on / standby button to standby mode and power on after a few seconds.

# Supplement for MP3

Precaution should be taken when you create your own MP3 CD

The MP3 Player supports only ISO9660 standard (level 1), it can recognize and play MP3 files burned to CD-R, CD-RW discs with the ISO9660 standard.

To make a disc with ISO9660 format you must use the "DATA CD Creator".



### The MP3 Player will not recognize any MP3 CD created with formats other than ISO9660.

ISO9660 is the default CD burning format for most common CD creation software. When creating MP3 CDs, users must refer to the help files of the CD creation software they are using in order to confirm that they are applying the correct settings to create a ISO9660 formatted CD. One of the procedures to set up ISO9660 option for some common CD creation software is found in the following section.

# Setting ISO9660 format option in some common CD creation software

#### Adaptec Easy CD creator 4.0

Note: ISO9660 setting procedure for other versions of Adaptec Easy CD creator, please refer to Adaptec's official web site at "www.adaptec.com".

#### Step1 -- Click on "File"



### Step2 -- Click on "CD Layout Properties"



Step3 -- Choose ISO9660, Click OK. "ISO9660" format is set for burning!



GB

# **Cleaning Disc**

Some problems occur because the disc inside the player is dirty. To avoid these problems clean your disc regularly, in the following way:

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe • in a circular motion. Circular scratches can cause picture distortion or render the disc unplayable.

### CAUTION

Do not use solvents, commercially available cleaners, or anti-static spray intended for analog discs.



# **Electrical Specification**

•	Amplifier Unit Amplifier Section	
	Power Output	18 W RMS / channel min.
	Total Harmonic Distortion	
	Frequency Response	20 Hz-20 kHz / 1 dB
	S/N Ratio	
	Input Sensitivity	460 mV
	Tone Control	±12 dB
•	Tuner Section	
	Tuning Range	FM 87.50-108.00 Mhz (100 kHz steps)
		AM 530-1720 kHz (10 kHz steps)
	Intermediate Frequency	FM 10.7 MHz
		AM 450 kHz

26dB Quieting Sensitivity	FM 16 dB
26dB Quieting Sensitivity	AM 54 dB / m
Image Rejection Ratio	FM 28 dB
	AM 20 dB
IF Rejection Ratio	FM 55 dB
	AM 45 dB
S/N Ratio	FM 48 dB
	AM 35 dB
Auto Stop Sensitivity	FM 22 dB
	AM 50 dB / m
Selectivity	FM 20 dB
AM Suppression Ratio	
Harmonic Distortion	
	FM Stereo 2.5%
	AM 3%
Frequency Response	FM 100 Hz-4.5 kHz
	AM 120-2.5 kHz
Stereo Separation	FM 30 dB (1 kHz)
Stereo Threshold	

### **DVD** Section

Laser Type	Semiconductor	
Disc Diameter	12 cm / 8 cm	
Playing Time (12 cm)	Single Layer	- 2.12h
	Dual Layer	- 4.01h
	Two Sides, Single Layer	- 4.26h
	Two Sides, Dual Layer	- 8.02h

# **Electrical Specification**

Video Decoding MPEG - 2	
Resolution	
720 x 480 @ 60 Hz	
DAC 10 Bits	
Signal System PAL / NTSC	
Video Format	
Video S/N Ratio	
Differential Phase $\leq 5^{\circ}$	
Differential Gain Less than±5%	
Composite Video Output 1.0 Vp-p, 75 ohms	
S-Video Output	
C - 0.286 Vp-p, 75 ohms	
Audio DAC 24 Bits / 96 kHz	
Output Level≥1 Vrms	
Total Harmonic Distortion $\dots \leq 1\%$	
S/N Ratio $\geq$ 70 dB	
Frequency Response	
4Hz - 22 kHz (48 kHz)	
4Hz - 44 kHz (96 kHz)	
Digital Output SPDIF (Coaxial & Optical)	
Missellenseus	
Miscellaneous	
Power Supply Rating 120 Vac / 60 Hz	

Power Consumption	Standby - 7W
	Max.300 W
Dimensions (W x H x D)	430mm x 75mm x 278mm
Weight	7Kg

#### IR Remote Control

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Effective Range	> 8 Meters
No. of Keys	38
Battery (1.5V)	AAA X 2

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