

HDMI DECODE PRE-AMP

USER MANUAL

AM-C702

HDMI DOLBY/DTS HD DECODE WITH PRE-AMPLIFIER

CONTENTS

Important Safety Instruction	1
Front Panel Information	3
Rear Panel Information	4
Remote Controller Information	5
Connection	7
Basic Operation	10
Troubleshooting Guide	15
Specification	16

Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, Surround EX and the double-D symbol are trademarks of Dolby Laboratories.

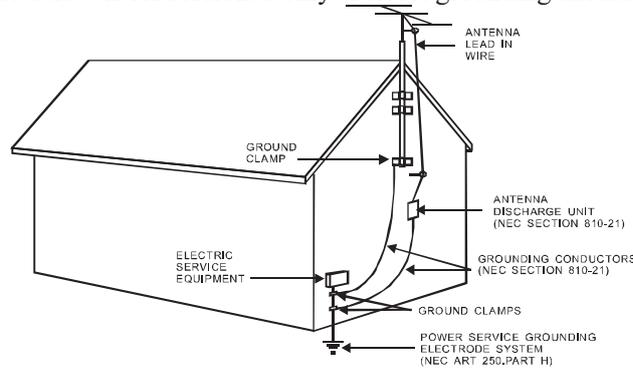
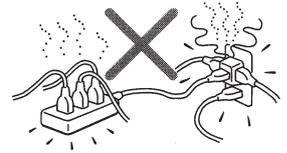
For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, DTS-HD, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS-HD Master Audio is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

IMPORTANT SAFETY INSTRUCTION

Caution: Read This Before Operating Your Unit.

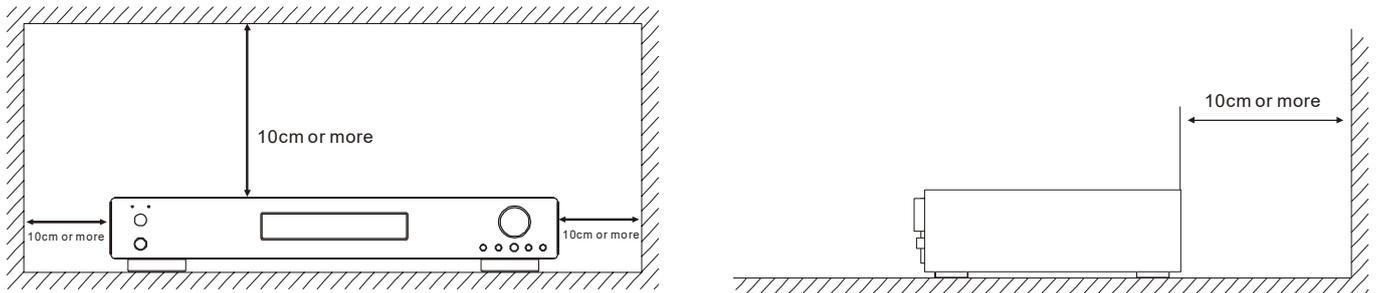
9. **READ AND FOLLOW INSTRUCTIONS:** All the safety and operation instructions should be read before the product is operated. Follow all operation instructions within this manual.
10. **RETAIN INSTRUCTIONS:** The safety and operation instructions should be retained for future reference.
11. **HEED WARNINGS:** Comply with all warnings on the product and in the operation instructions.
12. **CLEANING:** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
13. **GROUNDING or POLARIZATION:** This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician since it is likely you have an out of sate wall socket. Never force the plug into the socket.
14. **OVERLOADING:** Do not overload wall outlets or extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cables, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in electric shock or fire hazard. Periodically examine the power cable - if its appearance indicates damage or deteriorated receptacles have it replaced by your service technician.
15. **POWER SOURCES:** This product should be operated only from the type of power source indicated on the rear panel label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intend to be operated from battery power, or other sources, refer to the operation instructions.
16. **ACCESSORIES:** Do not place this product on an unstable surface or support. The product may fall, causing serious injury to a child or adult as well as serious damage to the product. Any mounting of the product should follow the manufacture's instructions and use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
17. **OUTDOOR ANTENNA GROUNDING:** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. The example below is for reference only. Correct grounding should always be installed by an electrician.



10. **POWER-CORD PROTECTION:** The power supply cables should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cables at plugs and the point where they exit from the product.
12. **ATTACHMENTS:** Do not use unauthorized attachments as they may cause faults with the unit.
12. **CONDITIONS REQUIREING SERVICE:** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) If the unit exhibits sudden unusual operation or unusual display characteristics.
 - b) If the unit exhibits sudden unusual operation or unusual display characteristics.
 - c) b. If liquid has been spilled, or objects have fallen into the product.
 - d) If the product has been exposed to rain or water.
 - e) If the product does not operate normally by following the operation instructions, adjusting only those controls that are covered by the operation instructions. (**NOTE:** 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).
 - f) If the product has been dropped or damaged in any way.
 - g) If the product exhibits a distinct change in performance.

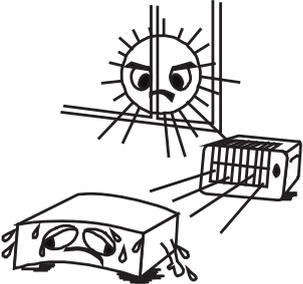
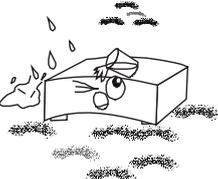
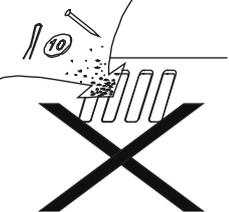
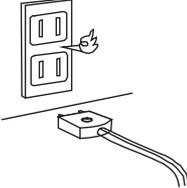
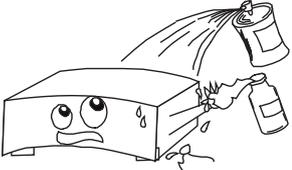
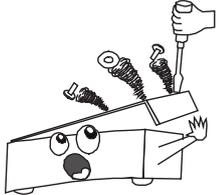
IMPORTANT SAFETY INSTRUCTION

13. **SERVICING:** Do not attempt to service this product yourself as removing cover may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.
14. **LIGHTNING:** For added protection for this product during a thunderstorm, or when it is left unattended and unused for long period of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.
15. **REPLACEMENT PARTS:** Should replacement parts be required, have the service technician verify that the replacement parts he uses have the same safety characteristics as the original parts. Use of unauthorized replacements parts can cause fire or electric shock.
16. **SAFETY CHECK:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the product is in a safe operating condition.
17. **HEAT DISPERSION---**Leave at least 10 cm of space between the top, back and sides of the unit and the wall or other components for proper ventilation.



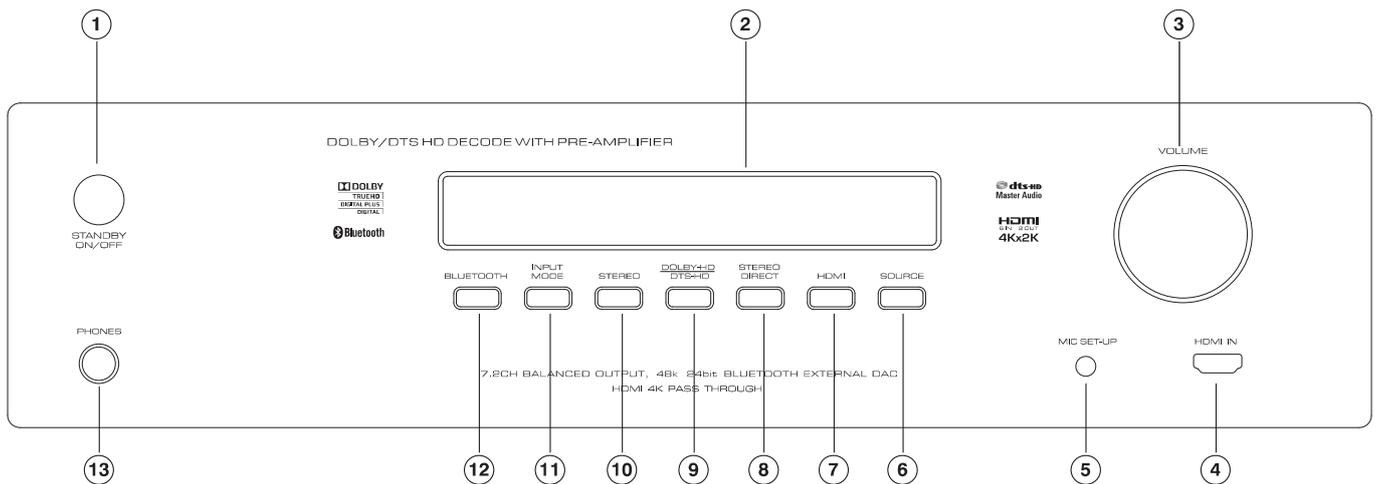
18. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

19. NOTES ON USE

 <ul style="list-style-type: none"> • Avoid high temperatures Allow for sufficient heat dispersion when installed on a rack. 	 <ul style="list-style-type: none"> • Keep the set free from moisture, water, and dust. 	 <ul style="list-style-type: none"> • Do not let foreign objects in the set.
 <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. 	 <ul style="list-style-type: none"> • Unplug the power cord when not using the set for long periods of time 	 <ul style="list-style-type: none"> • Do not let insecticides, benzene, and thinner come in contact with the set.
	 <p>*(For sets with ventilation holes)</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes 	 <ul style="list-style-type: none"> • Never disassemble or modify the set in any way.

20. The main plug is used as the disconnect device, the disconnect device shall remain readily operable.

FRONT PANEL INFORMATION



14. **STANDBY/ON/OFF button:** This button is used to set the decoder to On or Standby.

15. **VFD DISPLAY**

16. **VOLUME:** This control is used to adjust the volume of the decoder.

17. **HDMI IN:**

The HDMI inputs are for connecting components with an HDMI output, such as a DVD player, Blu-ray Disc Player, DVD recorder, or DVR (digital video recorder). They're assignable, which means you can assign each one to an input selector to suit your setup.

18. **MIC SET-UP:** Speaker Setup microphone connects here.

19. **SOURCE:** This button is used to select from the following input sources: BD/DVD, GAME, VIDEO, AUX

20. **HDMI:** This button is used to select HDMI source: HDMI 1, HDMI 2, HDMI 3, HDMI 4, HDMI 5, HDMI 6

21. **STEREO DIRECT:** Press the button to choose stereo direct listening.

22. **DOLBY-HD/DTS-HD:**

Under surrounding status, press the button when input 5.1/7.1CH, and will playback DTS/DOLBY DIGITAL sound source.

23. **STEREO:** Stereo listening mode, only for front left and front right and bass.

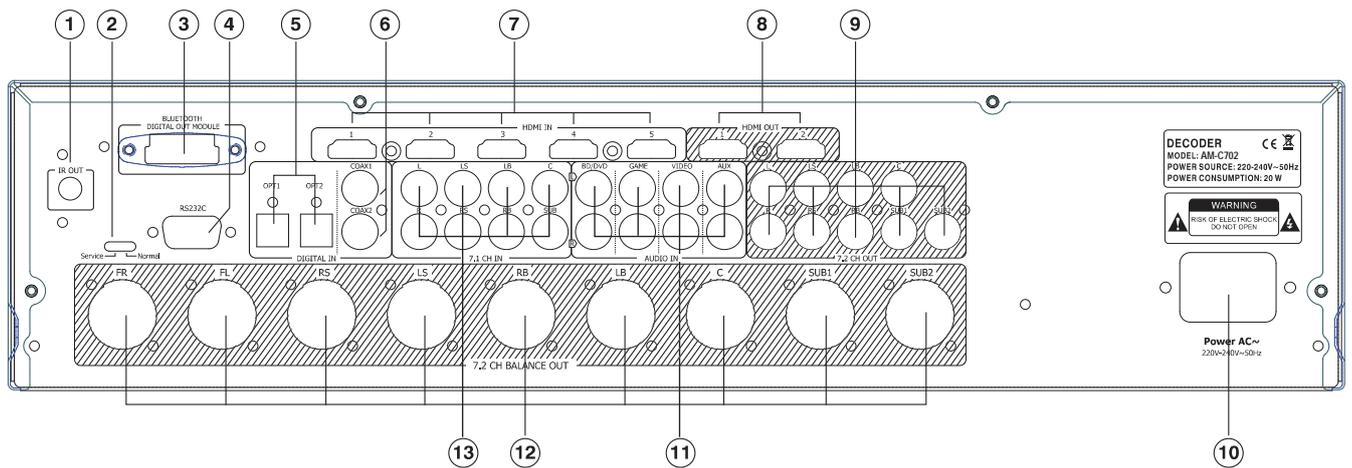
24. **INPUT MODE:**

This button is used to select from the following input mode:
HDMI, Analogue, Coaxial1, Coaxial2, Optical1, Optical 2

25. **BLUETOOTH:** Press the button to choose BT wireless connection

26. **PHONES jack:** This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening.

REAR PANEL INFORMATION



5. IR OUT:

A commercially available IR emitter can be connected to the IR OUT jack to pass IR (infrared) remote control signals through to other components.

6. SERVICE/NORMAL:

For dealer use only - Switches the unit between normal (default) mode and two Service modes.

Do not change the mode to service or make RS232 connections to it in service mode as damage may result!

7. BLUETOOTH MODULE: This is for connecting Bluetooth module

8. RS232C: Terminal for control.

5-6. DIGITAL IN:

OPTICAL DIGITAL:

These optical digital audio inputs are for connecting components with optical digital audio outputs, such as CD and DVD/BD players. They're assignable, which means you can assign each one to an input selector to suit your setup.

COAXIAL DIGITAL:

These coaxial digital audio inputs are for connecting components with coaxial digital audio outputs, such as CD and DVD/BD players. They're assignable, which means you can assign each one to an input selector to suit your setup

7-8. HDMI 5 IN 2 OUT:

HDMI (High Definition Multimedia Interface) connections carry digital audio and digital video.

The HDMI inputs are for connecting components with an HDMI output, such as a DVD player, Blu-ray Disc Player, DVD recorder, or DVR (digital video recorder). They're assignable, which means you can assign each one to an input selector to suit your setup.

The HDMI outputs are for connecting a TV or projector with an HDMI input.

9. 7.1CH OUT:

These multichannel analog audio outputs can be connected to the analog audio input on a multichannel power amplifier.

14. Power AC:

The power cord is connected here. The other end of the power cord should be connected to a suitable wall outlet.

15. AUDIO IN: BD/DVD, GAME, VIDEO, AUX

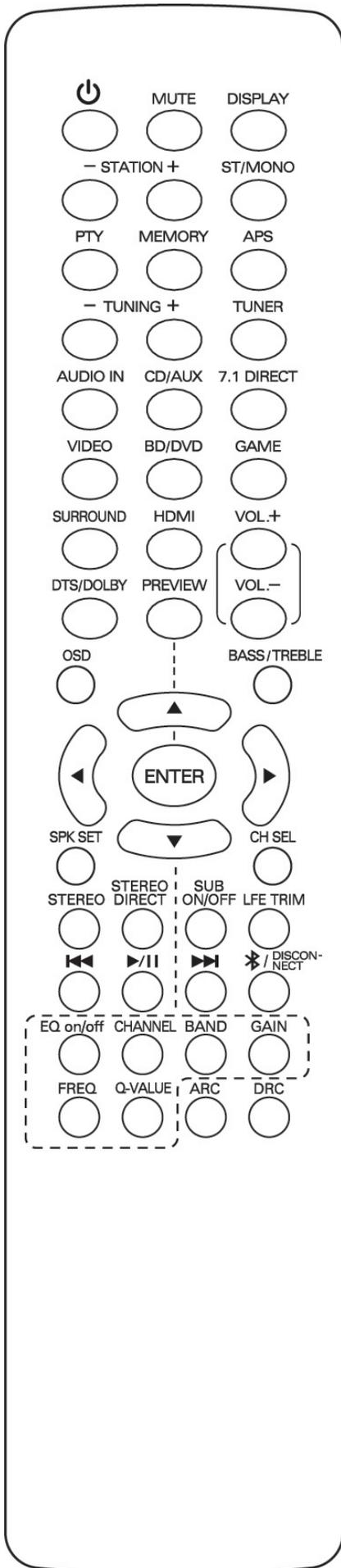
16. 7.2CH BALANCE OUT:

These balanced XLR outputs are for connecting a multichannel power amplifier and powered sub-woofer.

17. 7.1CH IN:

This analog multichannel input is for connecting a component with a 5.1/7.1-channel analog audio output, such as a DVD player, DVD-Audio or Super Audio CD-capable player, or an MPEG decoder.

REMOTE CONTROLLER INFORMATION



POWER

Set the unit to On or Standby.

MUTE

Mutes or unmutes the unit

DISPLAY

Displays information about the current input source

STATION +/- (This button is only applicable to other models)

ST/MONO (This button is only applicable to other models)

PTY Search (This button is only applicable to other models)

MEMORY (This button is only applicable to other models)

APS (This button is only applicable to other models)

TUNING +/- (This button is only applicable to other models)

TUNER (This button is only applicable to other models)

AUDIO IN

Select audio formats (HDMI, Analogue, Coaxial1, Coaxial2, Optical1, Optical 2)

CD/AUX

Select AUX input source

7.1 DIRECT

Select 7.1 direct listening mode

VIDEO

Select VIDEO 1 input source

BD/DVD

Select BD/DVD input source

GAME

Select GAME input source

SURROUND

Input 2 CH signal, press this button to enter 7.1/5.1 CH play

HDMI

This button is used to select HDMI source: HDMI 1~6

DTS/DOLBY

Under playing surround mode, input 5.1/7.1 CH signal to press this button, replay DTS/DOLBY DIGITAL source.

PREVIEW

Preview HDMI input screen

VOLUME +/-

Adjusts the volume of the unit

OSD (On-screen display)

Used to change settings

BASS/TREBLE

Press this button for Bass/Treble adjustment and then press the CH +/- key to adjust the level.

[▲/▼/◀/▶] & ENTER

Used to select and adjust settings

CH SEL

Press the button repeatedly to cycle through the channels. Use the directional control up/down buttons to raise or lower that channel's level.

SPK SETUP button

Press this button repeatedly to select the speaker's settings you want to change. Use the directional control up/down buttons to select Large, Small or None for each speaker.

STEREO

With the unit in the STEREO mode, only front left and front right speakers are working.

REMOTE CONTROLLER INFORMATION

STEREO DIRECT

Use this mode when you want to hear the truest possible reproduction of a source. All unnecessary signal processing is by passed.

SUB ON/OFF

This button is used to turn the subwoofer connection on/off.

LFE TRIM

This button lets you adjust the level of the low-frequency effects (LFE) channel in a movie soundtrack or multi-channel music recording. Press to activate the control, then use the directional control up/down buttons to raise or lower the LFE level. Note that this is an LFE level control, not a subwoofer level control, so it will work only on 5.1 and 7.1 soundtracks that contain an LFE.

[◀◀]/[▶▶]

Use ◀◀ / ▶▶ buttons to select previous/next track while using Bluetooth.

▶/|| button

Press to start or stop playback while using Bluetooth.

B.T. /DISCONNECT

Press this button to select /stop Bluetooth connection

EQ ON/OFF

Press this button to turn the EQ on or off.

CHANNEL

Press this button to select channel.

BAND

Press this button to select band.

GAIN

Press this button to adjust level.

FREQ

This button is used for center frequency setup

Q-VALUE

This button is used for bandwidth setup

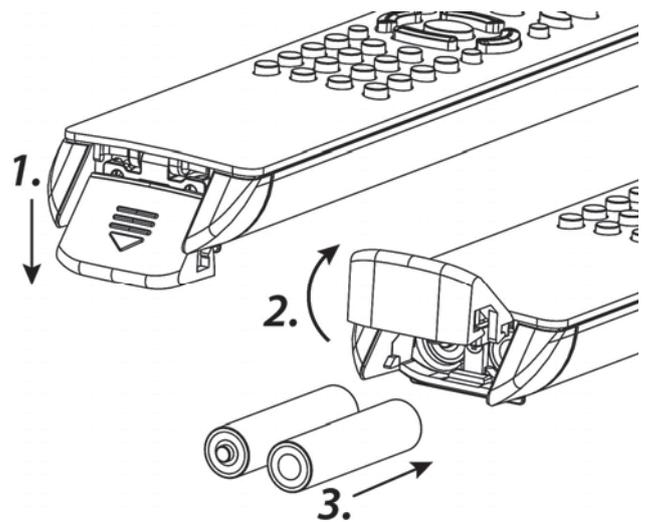
ARC

Press this button for audio return.

DRC

Press this button to select DRC

Install batteries in the remote control



4. Push the cover as showed arrow to open battery compartment cover.
5. Insert two batteries (AAA/R03P) according to the polarity markings (+ and -) on the inside of battery compartment.
3. Pull back the cover.

Caution:

- Change all batteries if remote control can't work.
- Do not use and old battery and a new one together.
- If remote control not use for long time, take out batteries to avoid leakage.
- Do not stay uncharged batteries in remote control to avoid leakage.

Using remote control

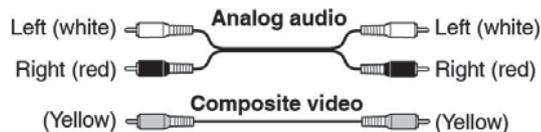
- Please make sure remote control point to remote sensor of decoder.
- Remote control in strong light instability, such as sunlight or reflective fluorescent lights.
- Same type remote control use in same room, or decoder install close to infrared device, the remote control may not work reliably.
- Do not put any objects on remote control, such as books. Because they will touch the buttons to drain batteries,
- If the decoder is installed in rack with color glass, it will affect remote control use.
- There is an obstacle between the remote control and the remote sensor decoder, remote control can't work.

CONNECTION

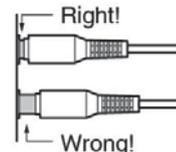
Before making any AV connections, read the manuals supplied with your other AV components. Don't connect the power cord until you've completed and double-checked all AV connections.

Connection Color Coding

RCA-type connections are usually color-coded: red, white, and yellow. Use red plugs to connect right-channel audio inputs and outputs (typically labeled "R"). Use white plugs to connect left-channel audio inputs and out-puts (typically labeled "L"). And use yellow plugs to connect composite video inputs and outputs.



- Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).
- To prevent interference, keep audio and video cables away from power cords and speaker cables.



Cables & Jacks

Video / Audio

	Cable	Jack	Description
HDMI			HDMI connections can carry uncompressed standard or high-definition digital video and audio and offer the best picture and sound quality.

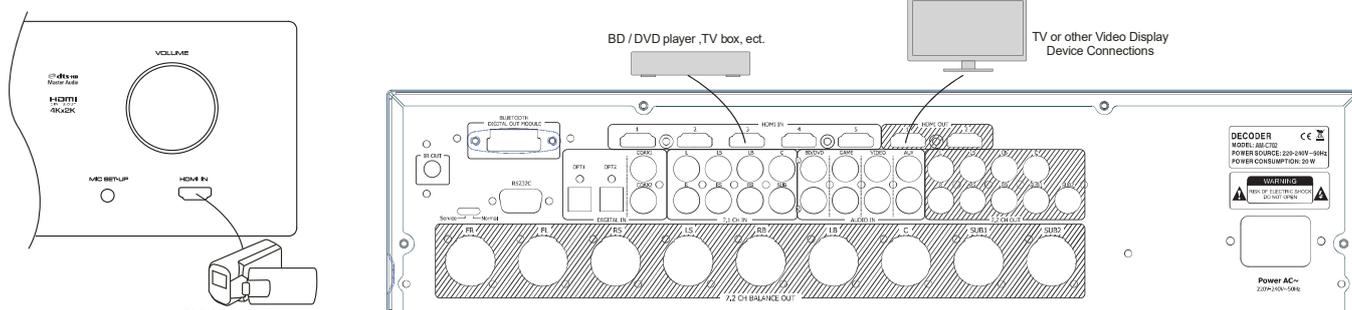
Audio

Optical digital audio cable			Offers the best sound quality and allows you to enjoy surround sound (e.g., Dolby Digital, DTS). The audio quality is the same as for coaxial.
Coaxial digital audio cable			Offers the best sound quality and allows you to enjoy surround sound (e.g., Dolby Digital, DTS). The audio quality is the same as for optical.
Balanced XLR cable			This cable carries analog audio. Balanced XLR cables are used for better noise immunity and longer cable runs.
Analog audio cable (RCA)			This cable carries analog audio. It's the most common connection format for analog audio, and can be found on virtually all AV components.
Multichannel analog audio cable (RCA)			This cable carries multichannel analog audio and is typically used to connect DVD players with a 7.1-channel analog audio output. Several standard analog audio cables can be used instead of a multichannel cable.

Connecting Components with HDMI

Designed to meet the increased demands of digital TV, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, DVD/BD players, set-top boxes, and other video components.

1. Use HDMI cables to connect the decoder's HDMI jacks to your HDMI-compatible DVD/BD player, TV, projector, and so on.
2. Assign each HDMI IN to an input selector in the HDMI Input Setup.



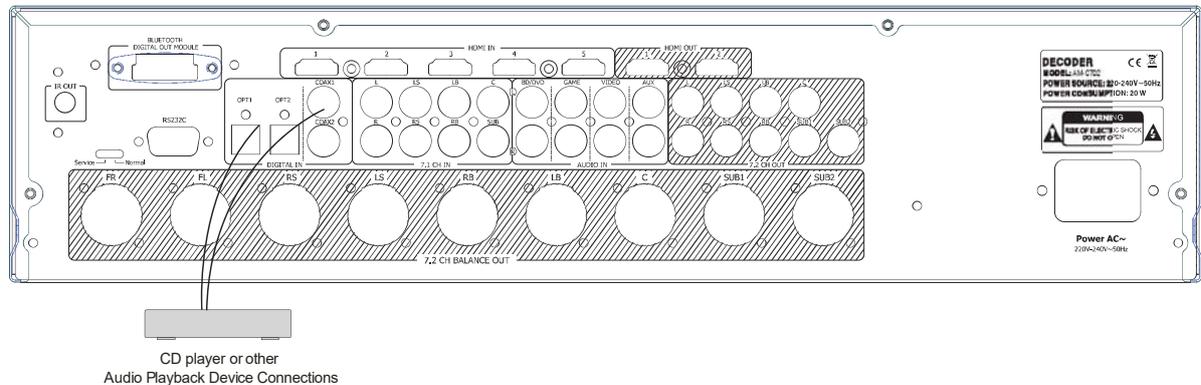
CONNECTION

Audio Connection

1. Use audio cables to connect the decoder's audio jacks to your compatible CD player or other audio playback device.
2. Select the input source for audio playback.

Digital Audio Connection

This decoder has two digital audio connections: Optical digital connection and coaxial digital connection.



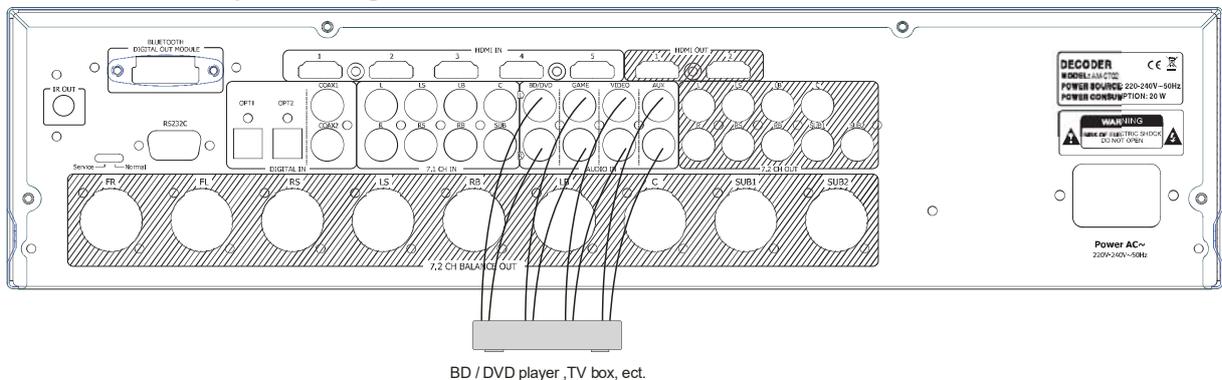
Optical Digital Jacks

The decoder's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

Caution: To prevent shutter damage, hold the optical plug straight when inserting and removing.

Analogue Audio Connection

This decoder has four analogue audio input terminals: BD/DVD, GAME, VIDEO, AUX.

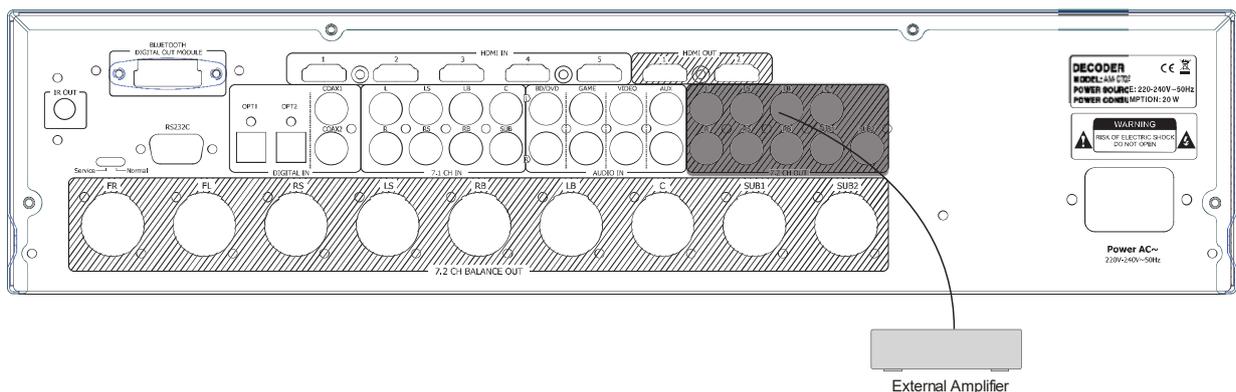


Connecting a Power Amplifier

Connecting a Power Amplifier with RCA Inputs

You can connect the decoder to a multichannel power amplifier with RCA input jacks by using a multichannel RCA audio cable or several stereo RCA audio cables.

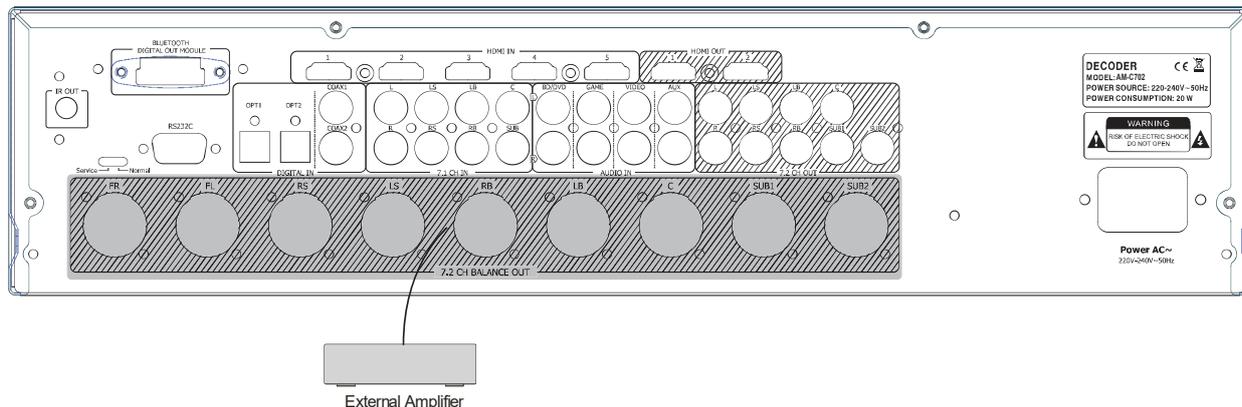
See your multichannel power amplifier's instruction manual for more information on connecting speakers.



CONNECTION

Connecting a Power Amplifier with XLR Inputs

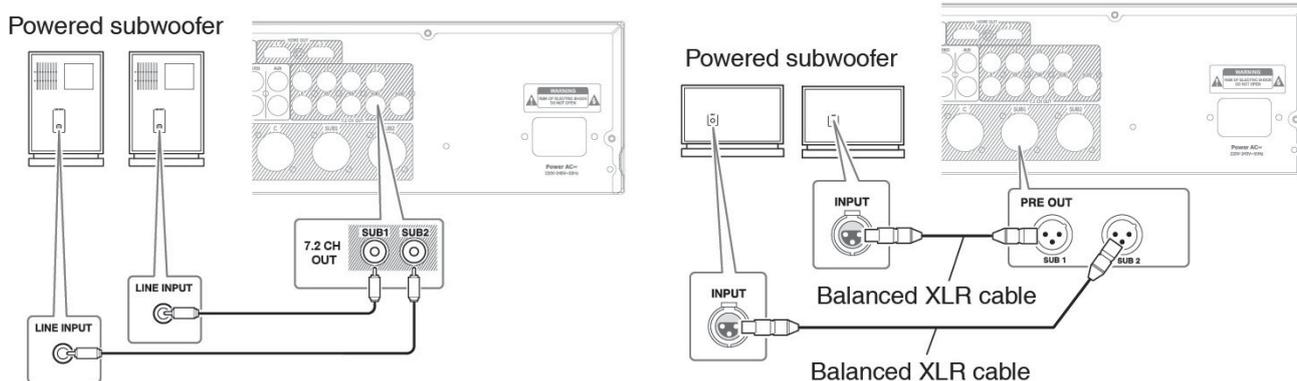
You can connect the decoder to a multichannel power amplifier with balanced XLR input jacks by using several XLR audio cables.



Connecting Powered Subwoofers

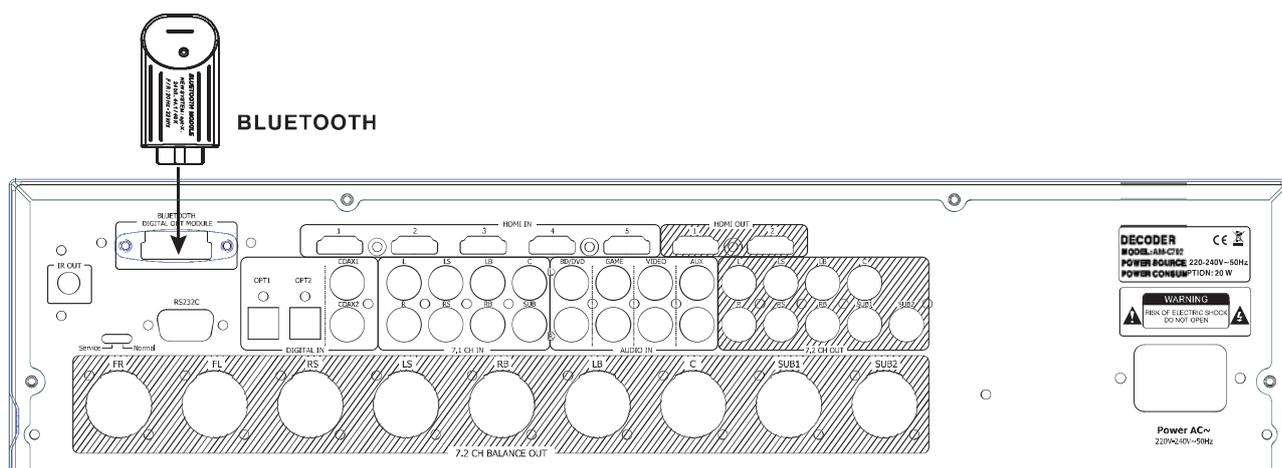
Using a suitable cable, connect the decoder's SUB1, SUB2 to an input on your powered sub-woofer, as shown. If your subwoofer is unpowered and you're using an external amplifier, connect the SUB1, SUB2 to an input on the amp.

You can connect the powered subwoofer with each jack respectively. Level and distance can be set individually for each output. If you use one subwoofer, connect it to SUB1.



Bluetooth Connection

When the Bluetooth module is connected to this unit, a product equipped with Bluetooth wireless technology (portable cell phone, digital music player, etc.) can be used to listen to music wirelessly. Also, by using a commercially available transmitter supporting Bluetooth wireless technology, you can listen to music on a device not equipped with Bluetooth wireless technology. The Bluetooth module supports SCMS-T contents protection, so music can also be enjoyed on devices equipped with SCMS-T type Bluetooth wireless technology.



BASIC OPERATION

Before you begin, make certain that the AC power cord supplied with this unit is firmly inserted into the socket on the unit's rear panel, then plug the power cord into an AC wall outlet or surge protection device. The ring around the power button on the front panel will light up.

Power

► **To turn the unit on or turn to standby:**

1. To turn the unit on, press the power button on the front panel or remote control.

The front panel display will illuminate and the light upon the power button will glow brighter.

2. To turn the unit into standby mode, press the power button on the front panel or remote control again.

Please turn down the volume before turning off the unit.

OSD Menu

Before you begin, you'll need to know how your devices are connected.

1. Video Input Select

- (1) Press the OSD button on the remote control.
The menu will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight "Video In. Select" and press the ENTER button to select.
- (3) Use the UP and DOWN arrow keys (▼▲) to highlight the input source you want to configure and the LEFT and RIGHT arrow keys (◀▶) to select one of the available HDMI input.
- (4) When you have finished, press the OSD button to return to the previous menu level.
- (5) To exit the Setup Menu, keep pressing the OSD button until the OSD disappears.

Video In. Select	BD/DVD	HDMI1<>
Audio In. Select	GAME	HDMI2<>
ToneSub Config.	VIDEO	HDMI3<>
Speaker Config.	AUX	HDMI4<>
Speaker Distance	7.1 Direct	HDMI5<>
Speaker Level		
Speaker Xover		
Advanced Setup		
OSD Setup		
Auto Setup		
Quit: [OSD]		Enter: [ENTER]

2. Audio Input Select

- (1) Press the OSD button on the remote control.
The menu will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight "Audio In. Select" and press the ENTER button to select.
- (3) Use the UP and DOWN arrow keys (▼▲) to highlight the input source you want to configure and the LEFT and RIGHT arrow keys (◀▶) to select one of the available input.
- (4) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	BD/DVD	HDMI <>
Audio In. Select	GAME	HDMI <>
ToneSub Config.	VIDEO	HDMI <>
Speaker Config.	AUX	HDMI <>
Speaker Distance	7.1 Direct	HDMI <>
Speaker Level		
Speaker Xover		
Advanced Setup		
OSD Setup		
Auto Setup		
Quit: [OSD]		Enter: [ENTER]

3. Tone Configuration

- (1) Press the OSD button on the remote control.
The menus will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight "ToneSub Config." and press the ENTER button to select.
- (3) Use the UP and DOWN arrow keys (▼▲) to highlight the item you want to configure and the LEFT and RIGHT arrow keys (◀▶) to adjust.
- (4) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Bass	0dB<>
Audio In. Select	Treble	0dB<>
ToneSub Config.	LEF Trim	0dB<
Speaker Config.	DD/DTS Sub Trim	0dB<>
Speaker Distance	DD/DTS Bass Aug	OFF<>
Speaker Level	PLII Sub Trim	0dB<>
Speaker Xover	PLII Bass Aug	OFF<>
Advanced Setup	Stereo+Sub Trim	0dB<>
OSD Setup		
Auto Setup		
Quit: [OSD]		Enter: [ENTER]

■Bass

Use this control to boost or cut bass.

■Treble

Use this control to boost or cut treble.

■LFE Trim

This control reduces the level of the LFE (or ".1") component in a 5.1 or 7.1 soundtrack. It does not affect signals from other channels. Use it if you find the bass in movie soundtracks to be too loud. There's no "proper" setting; what-ever sounds good to you is correct.

The unit incorporates a couple of advanced Bass Management features. The overall Sub Level for DD/DTS modes, PLII/x/Neo:6 modes and Stereo + Sub mode can be set to different levels. This can be useful if you prefer to have a high level of Sub operation whilst watching movies but a lower level for music playback. The three levels are simply adjusted by up to +/-10dB in the OSD. The second feature is that the way Bass Management is applied can be changed.

BASIC OPERATION

4. Speaker Configuration

- (1) Press the OSD button on the remote control. The menus will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight “Speaker Config” and press the ENTER button to select.
- (3) Use the remote control to set the appropriate surround mode for your system.

The selection you make here also affects the options for setting up your back surround speakers. The available choices are:

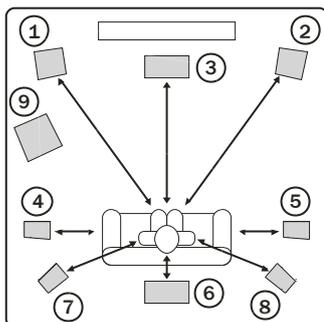
5.1→7.1

- (4) Use the UP and DOWN arrow keys (▼▲) to highlight the speaker you want to configure and the LEFT and RIGHT arrow keys (◀▶) to adjust.
- (5) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Decode Mode	7.1<>
Audio In. Select	Front L/R	Large<>
ToneSub Config.	Center	Small<>
Speaker Config.	Surr. L/R	Small<>
Speaker Distance	Surr. LB/RB	Small<>
Speaker Level	Subwoofer	Yes<>
Speaker Xover		
Advanced Setup		
OSD Setup		
Auto Setup		
Quit: [OSD]		Enter: [ENTER]

5. Speaker Distance

Here you can specify the distance from each speaker to the listening position so that the sound from each speaker arrives at the listener’s ears as the sound designer intended.



1. Front Left Speaker
2. Front Right Speaker
3. Center Speaker
4. Surround Left Speaker
5. Surround Right Speaker
6. Surround Back Speaker
7. Surround Back Left Speaker
8. Surround Back Right Speaker
9. Subwoofer

Speaker Distance Setup Steps:

- (1) Press the OSD button on the remote control. The menus will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight “Speaker Distance” and press the ENTER button to select.
- (3) Use the UP and DOWN arrow keys (▼▲) to

highlight “Unit” and the LEFT and RIGHT arrow keys (◀▶) to choose whether you are using feet or meters to measure the speaker distances from the Unit menu

- (4) Use the UP and DOWN arrow keys (▼▲) to highlight the speaker you want to configure and the LEFT and RIGHT arrow keys (◀▶) to adjust the distance.
- (5) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Unit	Meters <>
Audio In. Select	Front L	2.9<>
ToneSub Config.	Front R	2.9<>
Speaker Config.	Center	2.9<>
Speaker Distance	Surr. L	2.0<>
Speaker Level	Surr. R	2.0<>
Speaker Xover	Surr. LB	2.0<>
Advanced Setup	Surr. RB	2.0<>
OSD Setup		
Auto Setup		
Quit: [OSD]		Enter: [ENTER]

6. Level Calculation

Here you can adjust the level of each speaker with the built-in test tone so that the volume of each speaker is the same at the listening position.

- (6) Press the OSD button on the remote control. The menus will be shown on your video display.
- (7) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight “Level Cal” and press the ENTER button to select.
- (8) Use the LEFT and RIGHT arrow keys (◀▶) to active the test signal, front left speaker will have pink noise
- (9) DOWN arrow keys (▼▲) to highlight the speaker you want to configure and the LEFT and RIGHT arrow keys (◀▶) to adjust until the level of all speakers are same.
- (10) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Test Signal	OFF<>
Audio In. Select	Front L	0dB<>
ToneSub Config.	Front R	0dB<>
Speaker Config.	Surr. L	0dB<>
Speaker Distance	Surr. R	0dB<>
Speaker Level	Center	0dB<>
Speaker Xover	Subwoofer	0dB<>
Advanced Setup	Surr. LB	0dB<>
OSD Setup	Surr. RB	0dB<>
Auto Setup		
Quit: [OSD]		Enter: [ENTER]

BASIC OPERATION

7. Speaker Crossover

With these settings, you can specify a crossover frequency for each speaker.

- (5) Press the OSD button on the remote control. The menu will be shown on your video display.
- (6) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight “Speaker Crossover” and press the ENTER button to select.
- (7) Use the UP and DOWN arrow keys (▼▲) to highlight the item you want and the LEFT and RIGHT arrow keys (◀▶) to adjust.
- (8) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Front L/R	150Hz <>
Audio In. Select	Center	150Hz <>
ToneSub Config.	Surr. L/R	150Hz <>
Speaker Config.	Surr. LB/RB	150Hz <>
Speaker Distance		
Speaker Level		
Speaker Xover		
Advanced Setup		
OSD Setup		
Auto Setup		
	Quit: [OSD]	Enter: [ENTER]

8. Advanced Setup

- (1) Press the OSD button on the remote control. The menu will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) on the remote control to highlight “Advanced Setup” and press the ENTER button to select.
- (3) Use the UP and DOWN arrow keys (▼▲) to highlight the item you want to configure and the LEFT and RIGHT arrow keys (◀▶) to adjust.
- (4) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Panorama	OFF<>
Audio In. Select	Center Width	3<>
ToneSub Config.	Dimension	7<>
Speaker Config.	DTS Spkr Remap	1<>
Speaker Distance	DRC	OFF<>
Speaker Level	CenterGain	2<>
Speaker Xover		
Advanced Setup		
OSD Setup		
Auto Setup		
	Quit: [OSD]	Enter: [ENTER]

a) Panorama

This feature provides a more “wraparound” effect when Dolby Pro Logic II Music mode is engaged.

b) Center Width

This control operates only when Dolby Pro Logic II Music mode is engaged. It adjusts the mix of the right and left channels into the center channel. A setting of 7 provides no center-channel sound at all. A setting of 0 provides the

strongest center-channel sound.

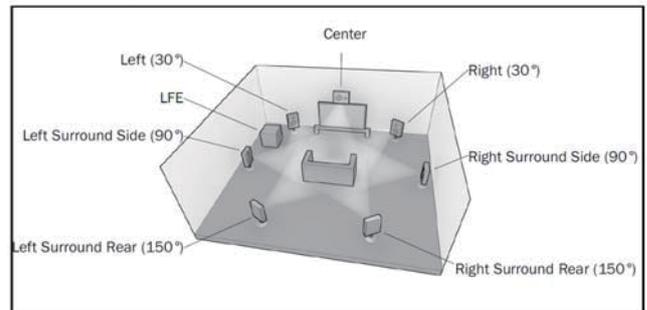
c) Dimension

Use this control to increase or decrease the surround effect in Pro Logic II Music mode. A setting of 0 gives the least surround effect, while 6 gives the most surround effect. We recommend starting with a setting of 0 and adjusting from there to your taste.

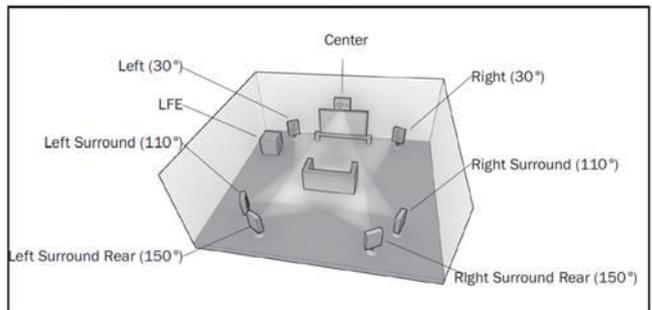
d) Remap

Because there’s no standard speaker layout for 7.1 mixing, DTS-HD Master Audio 7.1 soundtracks can carry metadata that tells the surround processor what speaker configuration was used for mixing. The processor can then adjust the sound to allow your speakers to simulate the surround effect you’d hear on the actual speaker system on which the soundtrack was mixed. A setting of 1 should be selected if your surround L/R speakers are placed to the sides of the listening position. A setting of 5 should be selected if your surround speakers are located behind the listener, just outside of the surround back speakers.

Configuration 1 - 7.1 channel: L, C, R, LFE, Lss, Rss, Lsr, Rsr



Configuration 5 - 7.1 channel: L, C, R, LFE, Ls, Rs, Lsr, Rsr



DRC (Dynamic range control)

This setting controls the dynamic range of Dolby Digital movie soundtracks by compressing the audio to limit the difference in level between loud and quiet passages in the movie.

This can be a useful feature when watching movies late at night for instance. Three settings are possible:

Auto – Compression is always applied for Dolby Digital and Dolby Digital Plus soundtracks. The application and amount of compression to Dolby True HD soundtracks is dictated by the soundtrack itself.

Off – No Compression (normal full dynamic range playback)

On – Compression is always applied for all Dolby soundtracks (reduced dynamic range playback)

BASIC OPERATION

CenterGain 0 to 5 (default: 2)

The DTS Neo:6 Music listening mode creates 6-channel surround sound from 2-channel stereo sources. With this setting, you can specify by how much the front left and right channel output is attenuated in order to create the center channel.

Setting a value “0” in the middle is set to hear a sound. Sound is spread in left and right (the outside) so that the set value is made big. Please adjust by liking.

9. OSD Setup

- (1) Press the OSD button on the remote control. The menus will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) to highlight “OSD setup” and press the ENTER button to select.
- (3) Use the UP and DOWN arrow keys (▼▲) to highlight “Language” and the LEFT and RIGHT arrow keys (◀▶) to choose “English” or “Chinese”.
- (4) When you have finished, press the OSD button to return to the previous menu level.

Video In. Select	Language	English <>
Audio In. Select	OSD Format	576P
ToneSub Config.	SoftWare Version	1.3E
Speaker Config.		
Speaker Distance		
Speaker Level		
Speaker Xover		
Advanced Setup		
OSD Setup		
Auto Setup		
		Quit: [OSD] Enter: [ENTER]

10. Auto Setup

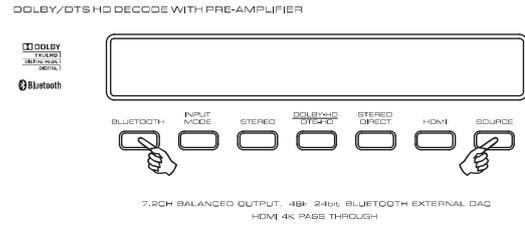
- (1) Press the OSD button on the remote control. The menus will be shown on your video display.
- (2) Use the UP and DOWN arrow keys (▼▲) to highlight “Auto setup” and press enter to start.

Video In. Select	Please place ENTER to start auto setup
Audio In. Select	
ToneSub Config.	
Speaker Config.	
Speaker Distance	
Speaker Level	
Speaker Xover	
Advanced Setup	
OSD Setup	
Auto Setup	
Quit: [OSD] Enter: [ENTER]	

Reset the system

Press the power button to turn on the unit, hold the BLUETOOTH and SOURCE buttons at the same time for about 3 seconds, the system will be reset.

Note: If you hold the BLUETOOTH and SOURCE buttons at the same time for more than 3 seconds, all the memory will be deleted.



Bluetooth Operation

Operation

- (1) Turn on power to the supported device
- (2) Press the button “ Bluetooth”
- (3) Perform Bluetooth pairing
- (4) Begin to play music on the Bluetooth wireless technology device

Pairing

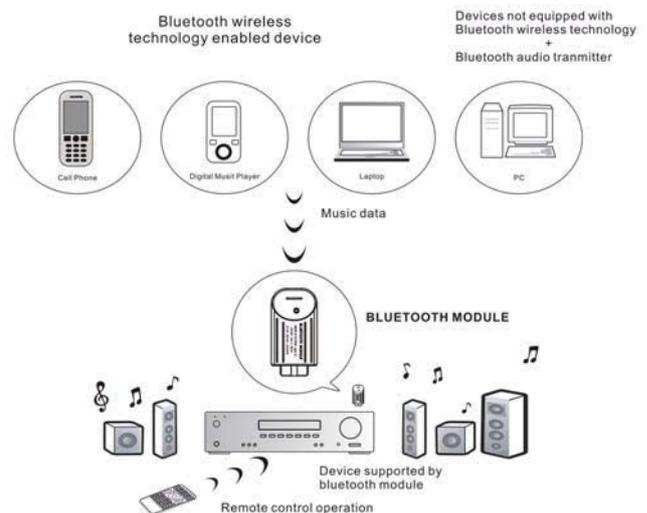
- (1) Open the bluetooth pairing interface in your device equipped with Bluetooth wireless technology (portable cell phone, digital music player, etc.)
- (2) Search the supported device
- (3) Switch on the device that you want to make pairing, place it near the system and set it into the pairing mode. For first time pairing, some products may need a PIN code, in this situation, please fill in “0000”.
- (4) Check to see that the Bluetooth module is detected by the Bluetooth wireless technology device. When Bluetooth wireless technology device is connected: Bluetooth wireless technology device name appears in the receiver display.

Remote control operation

The remote control supplied with this unit allows you to pause or stop media, return to previous song or skip to the next song.

Note:

3. It must be necessary that the Bluetooth wireless technology enabled device supports AVRCP profiles.
4. Remote control operations cannot be guaranteed for all Bluetooth wireless technology enabled devices.



TROUBLE SHOOTING

If you have any trouble using decoder, look for a solution in this section. If you can't resolve the issue yourself, contact your dealer.

Problem	Suggestion
Power	
Can't turn on the unit	Make sure that the power cord is properly plugged into the wall outlet. Unplug the power cord from the wall outlet, wait five seconds or more, then plug it in again.
Audio	
There's no sound, or it's very quiet	Make sure that your multichannel power amplifier is turned on and set up correctly and connected to the unit properly. Make sure that the digital input source is selected properly. Make sure that all audio connecting plugs are pushed in all the way. Make sure that the inputs and outputs of all components are connected properly. Make sure that the input source is properly selected. Make sure that the speaker cables are not shorting.
The subwoofer produces no sound	When you play source material that contains no information in the LFE channel, the subwoofer may produce no sound. Make sure the speakers are configured correctly.
Noise can be heard	Using cable ties to bundle audio cables with power cords, speaker cables, and so on may degrade the audio performance, so don't do it. An audio cable may be picking up interference. Try repositioning your cables.
The beginning of audio received by an HDMI IN can't be heard	Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.
Video	
There's no picture	Make sure that all video connecting plugs are pushed in all the way. If the video source is connected to an HDMI input, you must assign that input to an input selector, and your TV must be connected to the HDMI outputs
The onscreen menus don't appear	On your TV, make sure that the video input to which the unit is connected is selected.
Remote Controller	
The remote controller doesn't work	Make sure that the batteries are installed with the correct polarity. Install new batteries. Don't mix different types of batteries, or old and new batteries. Make sure that the remote controller is not too far away from the unit, and that there's no obstruction between the remote controller and the unit's remote control sensor. When using the remote controller to control other manufacturers' AV components, some buttons may not work as expected.

TECHNICAL CHARACTERISTICS

Features

- * HDMI 1.4 (1080P)
- * Aluminum Panel, VFD display
- * On Screen Display (OSD)
- * High performance Pre-amplifier
- * Low Magnetic Flux Leakage Massive Toroidal Transformer
- * Power Consumption during Standby <0.5W
(Complied with EuP standard)
- * 32 bit DSP decoding:Dolby True HD / Dolby Digital Plus / Dolby Digital /DTS-HD Master Audio / DTS ES)
- * Speaker Auto-Setup
- * 10 Band P-EQ for Each Channel
- * Bass Management and Auto-Setup
- * L/R Channel Balance Adjustment
- * Inputs Sensitivity: 250 mV
- * Inputs Impedance: 47 kohm
- * Dolby high Performance Class A
- * Full remote control

Bluetooth Module Feature and Specification:

Below data is tested under these formats: AAC / WAV / FLAC / APE

- * Sampling: 44.1 k or 48 k/24 bit
- * THD: 0.003 at 1 k
- * S/N: 95 dB
- * Frequency Range: 20 Hz - 20 kHz, ± 0.5 dB (MP3 frequency response below 16 kHz)
- * Remote handset function:Play/Pause, Forward Skip/Reverse Skip, Disconnect
- * Transmission Distance: over 10 M (barrier free)
- * Bluetooth Size: 49.6 (L) x 29(W) x 13.8(H) mm

Terminal

- * HDMI: 6 in, 2 out
- * Digital Coaxial: 2 in
- * Digital Optical: 2 in
- * Bluetooth digital: 1 in
- * Analogue Audio Inputs: 4sets (BD/DVD, GAME, VIDEO, AUX)
- * 7.2 Line out, 2 Subwoofer Line out (after Dolby, DTS decoded)
- * 7.2 Balance Line Out

General

Mains Voltage: 220-240V~50Hz

Dimension: 430 (L) x 240 (W) x 115(H) mm

* Design and specifications are subject to change without notice.