

USER'S MANUAL

AR-3600Hi

SPECIAL FEATURES

Support for disks

- MIDI-DVD, DVD, DVD-R, SVCD, VCD, CD, CD-R, CD-RW, Mp3, Mp4, USB

Karaoke support various functions

- Function of presetting the song and helps to preset 20 songs.
- The list of new songs.
- Favorite songs.
- Language is displayed in Vietnamese and English.
- Reserve the song and clear the reserved song as preference
- Adjust the key and tempo appropriate with each voice.
- Increase/decrease the song's melody as desired.
- Install greetings/lines on the screen in Vietnamese.
- Score and applause as preference.

Qualitative picture, transparent and clear sound

- Decoding technique MPEG1, MPEG2 and MPEG3, DIVX(Code3.11-5.0).
- * Note: not support absolutely 100% for DIVX formats.
- High quality sound with digital effect.
- High quality video background (MPEG2).

Other special features:

- Can use picture from other signal source as background picture in Midi Karaoke play.
- Unique VOCAL/CHORUS technique with the lively effect of vocal/chorus
- Play picture and audio data of all formats MP3, MP4, WMA, WAV...



- DVD disc can play up to 135', including 8 languages and 32 different captions
- MPEG-2 helps compress picture with high quality sound; creates the great, lively audio and picture as in the theaters.

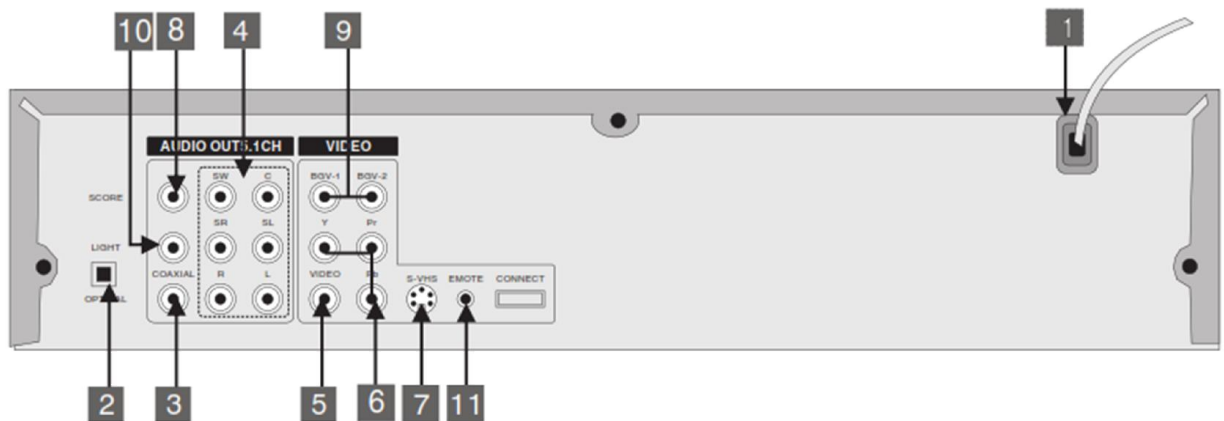
NAME OF EACH PART

Front panel



1. **POWER key:** Turn on/off power
2. **MIC port:** Use to plug in Microphone. Have 2 micro ports: MIC 1 and MIC 2
3. **VOL 1/2 knob:** increase/decrease the volume of MIC 1/2
4. **ECHO knob:** increase/decrease the effect of echo
5. **Displayed screen:** display the disc state being played and other functions
6. **Remote receiver:** receive infrared signals from the remote control
7. **Disc tray:** place to put disc in/out, be controlled by Open/Close key
8. **Numbers keys:** Use to input the song code
9. **RESV key:** Use to reserve the next song. Can reserve 20 songs
10. **TEMPO+(▶▶)/TEMPO-(◀◀): key:**
 - MIDI: adjust fast/slow tempo
 - DVD/VCD/CD/MP3: previous/next Track/Chapter
11. **KEY+(▶▶)/KEY-(◀◀): key:**
 - MIDI: increase/decrease the song key
 - DVD/VCD/CD: fast forward/rewind during disc play
12. **STOP key:** press this key to stop playing
13. **EJECT key:** use to load/eject the disc tray
14. **Play/Pause key:** press this key to pause the program being played, press again to continuous playing
15. **MODE:** select the repeat mode of the song (MIDI)
16. **CANCEL:** delete the reserved song

Rear panel:

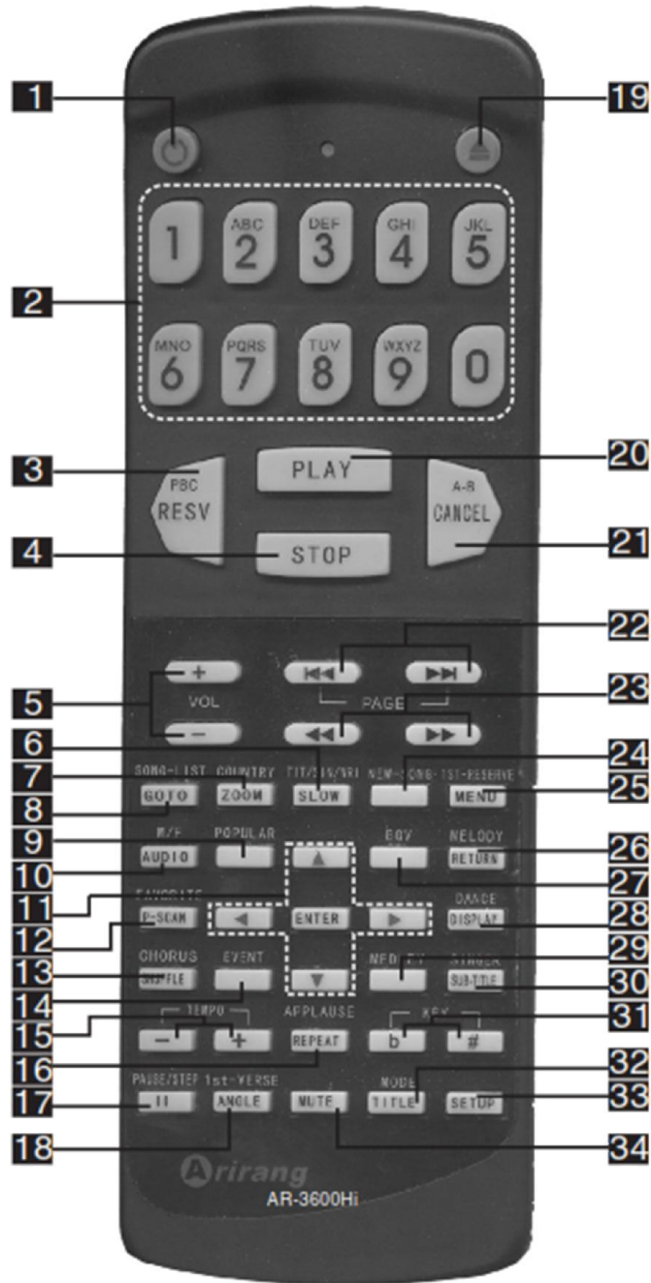


1. **Power-source cable:** plug in 110V/220V power source
2. **Optical audio port:** To connect to optical audio input of digital amplifier. Only have effect on DVD, VCD...not have effect on MIDI Karaoke disc
3. **Coaxial audio port:** Use to connect to coaxial audio input of digital amplifier. Only have effect on DVD, VCD...not have effect on MIDI Karaoke disc
4. **5.1 channel audio port:** Connect to 5.1 audio input of Amplifier
5. **Video port:** Connect to video input of TV or monitor
6. **Component video port:** Connect to TV having Component input
7. **S-Video port:** Connect to TV having S-video input to create the clear picture
8. **Scoring port:** Connect to Mic Out output of amplifier to score
9. **Picture mixing port:** use picture of other equipments as background picture for device in MIDI play
- 10-11. Not in use

* Accessories:

- 01 Remote control
- 01 Pair of AA batteries 1.5V
- 01 AV cable
- 01 Midi Karaoke disc
- 01 User's manual
- 01 Vietnamese song book

REMOTE CONTROL



- 1. **POWER:** on/off power
- 2. **Keys of numbers:** input the code of the song
- 3. **RESV/PBC (VCD 2.0):**

- + MIDI: Input the code and press RESV to reserve the song (approximately 20 songs)
- + VCD: PBC ON/OFF (only have effect on VCD 2.0)
- 4. STOP:** stop the program being played
- 5. VOL +/-:** increase/decrease the volume of device
- 6. SLOW/TIT/SIN/WRI:**
 - + MIDI: select Title/Singer/Writer in SONG_LIST
 - + DVD/VCD: slowly play picture following the speed x2/x4/x6
- 7. ZOOM/COUNTRY:**
 - + MIDI: Select the song in English, Chinese, Vietnamese...while searching for a song (SONG_LIST)
 - + DVD/VCD: zoom in pictures being played x1.5/x2/x3
- 8. SONG_LIST/GOTO:**
 - + MIDI: search as per song's title/singer/author
 - + DVD/VCD: Fast move to a chapter/track or a period of time by moving/enter key
- 9. POPULAR:** List of popular songs specified (approximately 300 songs)
- 10. AUDIO/M/F:**
 - + MIDI: select Male/female tone
 - + DVD/VCD: select audio output
- 11. Move/Enter:** Use to move and select the function while setting or searching for a song
- 12. P-SCAN/FAVORITE:**
 - + MIDI: List of favorite songs (default)
 - + DVD: Scan the pictures to avoid vibration
- 13. CHORUS/SHUFFLE:**
 - + MIDI: on/off the song's chorus
 - + DVD/VCD/CD: mode of random play (VCD 2.0 must be turned to PBC OFF)
- 14. EVENT:** List of event songs
- 15. TEMPO:** change fast (+)/slow(-) tempo of the song
- 16. REPEAT/APPLAUSE:**
 - + DVD: CHAPTER/TITLE REPEAT ON/OFF
 - + VCD (PBC OFF)/CD: REP ONE/ALL/OFF
 - + MIDI: effect of applause
- 17. PAUSE/STEP:**
 - + DVD/VCD: pause the programs being played, step forward each frame
- 18. 1 ST_VERSE/ANGLE:**
 - + MIDI: play a half of song or play a whole song
 - + DVD: effect of view angle (must be supported by DVD)
- 19. OPEN/CLOSE:** load/eject the disc tray
- 20. PLAY:** play the programs
- 21. CANCEL/A-B:**
 - + MIDI: delete the reserved song
 - + DVD/VCD: repeat a selected A-B section
- 22. PREV/NEXT (PAGE):**
 - + MIDI: move quickly through a page when searching for a song
 - + DVD/VCD: previous/next Chapter/Track
- 23. REW/FWD:**
 - + MIDI: fast forward 10 pages when searching the song
 - + DVD/VCD: fast browse pictures (x2/x4/x8/x16)
- 24. NEW SONG:** List of new songs updated
- 25. MENU/1 ST_RESERVE:**

- + DVD: enter to main menu in DVD use
- + MIDI: Input the code and press this key to place the song in priority

26. MELODY/RETURN:

- + MIDI: On/off the song's melody
- + Return to previous operation

27. BGV (BGV 1/BGV 2): select video mixing port from external signal source

28. DISPLAY/DANCE: display disc contents being played

29. MEDLEY: not in use

30. SUBTITLE/SINGER:

- + MIDI: on/off singer's voice
- + DVD: on/off caption language (must be supported by DVD disc)

31. KEY: Increase (+)/decrease (-) the key of song

32. TITLE/MODE:

- + MIDI:
 - One tune: set in default
 - Repeat: replay the selected song
 - Continue: continuously play songs after the song being played and continuously play in order
 - Random: randomly play the song

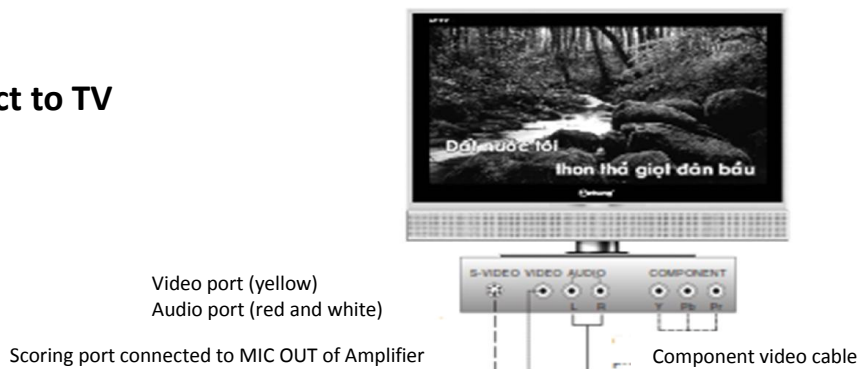
+ DVD: select TITLE in DVD play (must be supported by disc)

33. SETUP: set the device's configuration

34. MUTE: on/off the volume when the program being played

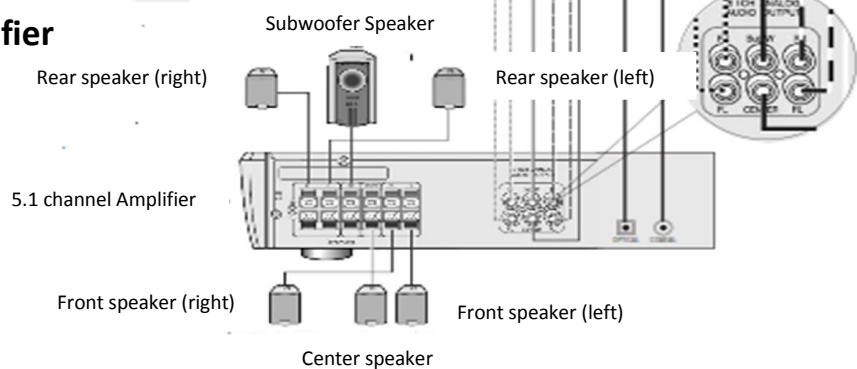
BASIC CONNECTION

Connect to TV



Connect to 5.1ch Amplifier

- Connect to digital Amplifier Dolby Digital or DTS (Digital Theater System). Use either one of the cables (Optical & Coaxial) to connect to digital audio output



USE THE REMOTE CONTROL

1. Install the battery: Check for installing in right polarity +/-
2. Battery life:
 - + Battery life depends on more or less use
 - + If the remote control does not work or works in very close area with the device, the user should replace the battery
 - + Use AA battery



3. Distance and angle to receive signals from the remote control:
 - + The remote control is directed to the device in the range of 30 degrees with a maximum distance of 7M
 - + The distance still depends on the space of device installation

NOTE:

1. Not illuminated by the light
2. Not place obstacles between remote control and device
2. Not be used with the different types of remote control

PLAY DISC



COMPATIBLE WITH: DVD/VCD/CD/MP3/WMA/DIV X/MP4

- * Play DVD video disc: The user will recognize DVD video disc through logo. Depending on each disc (movie disc, music disc, theater disc...), it will have one or more titles, each title has one or more chapters
- * Play VCD disc: The user will recognize VCD video disc through logo. Depending on movie disc, music disc or comedy disc, it will have one or more tracks. Some VCD disc (Ver2.0) has function of replay control (PBC on/off). The user can choose either PBC on or PBC off to play
- * Play CD disc: The user will recognize CD disc through logo.
- * MIDI Karaoke disc: MIDI disc contains a great amount of songs including: Vietnamese, English, Chinese...MIDI Karaoke disc for model AR-3600Hi has chorus, vocal, lyric and function to adjust fast/slow tempo that is very convenient for new singer
- * *Note: The device only reads MIDI disc released by MASECO Company. When use MIDI disc, only have audio in 2 channels: FL and FR*

1. Play disc:



+ Press POWER key to turn on the power of device

+ Press Open/Close key to eject the disc tray



+ Put disc in the tray with label located above the disc

+ Press Open/Close key or press Play to load the disc tray

* *Note: put disc in the tray in incorrect position can cause jammed, scratched or damaged*

2. Basic function keys:



PLAY ----- Play



PAUSE ----- Pause



STOP ----- Stop



x2/x4/x6/x8/x16/x32 ----- Fast forward



x2/x4/x6/x8/x16/x32 ----- Fast rewind




----- To next Track/Chapter



----- To previous Track/Chapter



----- No effect

* *Note: Sometimes when press key, on screen appears  , that means you have selected invalid function*

3. To Previous/Next Track/Chapter: When title of DVD disk has a lot of Chapters or VCD disk has a lot of Tracks, move to other Chapters or Tracks by the following way:



+ Press **▶▶** to move to next Chapter/Track

+ Press **◀◀** to move to previous Chapter/Track



+ For VCD/CD disk, when in stop mode, select Track by number keys to play. For VCD2.0, select PBC OFF feature to choose the song.

4. Fast Forward/Rewind:



+ When the device is playing, press **▶▶** or **◀◀** to fast Forward/Rewind

+ To return to play mode, press PLAY key



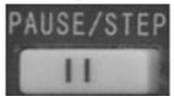
+ Have 5 levels to increase/decrease the speed of fast forward/rewind, each level corresponding with each key press x2/x4/x8/x16

5. Stop the program being played:



+ Press "STOP" key to stop, press "PLAY" to continue playing

6. Pause and slowly move the frame (DVD/VCD):



+ Press "PAUSE/STEP" key to pause

+ Then press "PAUSE/STEP" key to slowly move each frame

7. Slowly play (DVD/VCD):



+ Press "SLOW" key to slowly play. Have 3 levels to decrease the speed x2/x4/x8

+ Press "PLAY" key to return to normal play mode

8. Zoom in picture (DVD/VCD): User can zoom in picture up to 3 times. Depending on the play mode, "ZOOM" key has different effects. Press up/down/left/right key to move




+ In the mode of normal play, "ZOOM" key has the effect of zoom in the picture

+ In the mode of moving picture, "ZOOM" key has the effect of zoom in the desired picture angle


+ To return to normal mode, press "ZOOM" key again

* Note: "ZOOM" mode depends on disk

9. Randomly play (VCD/CD/MP3):



 + Press "SHUFFLE" key to play disc in random mode (VCD2.0 must open PBC OFF)

10. Key of function list (Menu DVD): only have effect if supported Menu function by disc


 + Press MENU key to select the function list
+ Press ▲ or ▼ key to select item
+ Press "ENTER" or "PLAY" to select
+ Press "MENU" key to return to main Menu

BASIC OPERATION IN USING MIDI KARAOKE DISC


1. Basic operation:

 + Play: Input the code of the song by using number keys. Press PLAY or ENTER to play
+ Press RESERVE key to store and press 1ST_RESERVE to store in the priority
+ Stop: When the device is playing, press STOP key to stop playing and delete the incorrect input
 + CANCEL key in this case has the effect to cancel the code of the song stored previously


2. Adjust the key:

 + Can change high/low key of the song by pressing KEY key to increase/decrease


3. Adjust the tempo:

 + Can change fast/slow tempo of the song by pressing TEMPO key to increase/decrease

4. Select Male/female tone:

 + Press (M) Male/ (F) Female key to select male/female tone

5. Adjust the song melody:

 + Press MELODY to increase/decrease the song melody
+ On screen displays a lot of MELODY modes: Strong/Mild/None/Standard to select

6. Popular song:



- + Press POPULAR key to select the song in list of popular songs installed previously (approximately 300 songs)
- + Press ▲ ▼ key to select the song
- + Press PLAY/ENTER to play
- + Press STOP to exit

7. Favorite song:



- + Press FAVORITE key
- + Press ▲ ▼ key to select the song, then press PLAY/ENTER key to play
- + Press STOP key to exit

8. New song:



- + List of new songs updated in new VOL of MIDI disc
- + Press ▲ ▼ key to select the song from the list, press PLAY/ENTER to play, press RESERVE to store (approximately 20 songs)

9. MODE key: Use to select different play modes:



- + One tune: mode defaulted in the device, only play one song
- + Repeat: mode to replay the song being played, on screen displays the text "REPEAT 1"
- + Continue: continuously play songs after the song being played and continuously play in order (REPEAT ALL)
- + Random: mode to randomly play the song, the device will play a random song (RANDOM)

10. SINGER key: turn on/off singer's voice. Select the song having SINGER function then press SINGER (ON/OFF) key, , this key only has effect if the song has SINGER support (present details in "VIETNAMESE SONG BOOK")



11. CHORUS key: CHORUS ON/OFF keys used to turn on/off the chorus. This key only has effect if the song has CHORUS support



12. 1 ST VERSE key: helps only play a half of the song being played, press this key again to return to normal play



13. APPLAUSE key: helps turn on the applause function while the device is playing the song or at the end of each song



14. VOL key: Press VOL +/- key to adjust the volume

15. MUTE key: Use to turn on/off the volume (Mute on/off)

CHOOSE THE SONG DIRECTLY BY REMOTE CONTROL



- + Press SONG_LIST key, the device will display a page about the song information
- + Press COUNTRY key to change the song list of each country (Vietnamese, English, Chinese...)
- + Press TIT/SIN/WRI to change TIT (title)/SIN (singer)/ WRI (writor)

+ Press ◀ ▶ to change the alphabet (A-Z) (depending on the alphabet of each language)

+ The table below lists the title and the code of the song

+ Press "PAGE(NEXT(▶▶)/PREV(◀◀))" key to move to previous/next page

+ Press ▶▶ and ◀◀ to fast searching for 10 pages

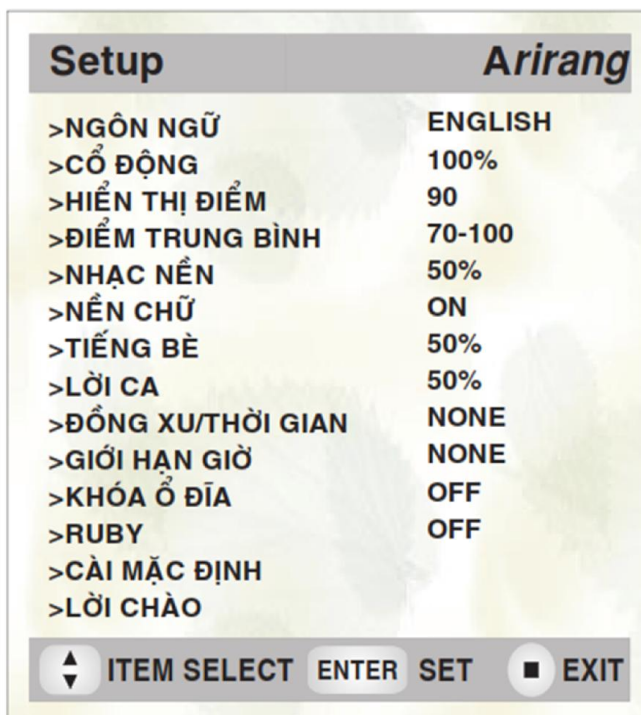
+ Press RESV to reserve the songs (approximately for 20 songs)

+ Press STOP key to exit

- For example, fast searching for the song "50435-Đất nước" by searching as the first characters: Press SONG_LIST Press number 3 key until display the character "D" Press 2 key "A", the table below will list all the songs by the code corresponding with two characters "D" and "A" Press ◀ to delete the incorrect input Press ▲ ▼ key to select the song Press PLAY/ENTER to play

SET KARAOKE FUNCTION

- This function only has effect on MIDI Karaoke disc, press SETUP and input PASSWORD "0000"
 - + Use ▲▼ key to select the function section
 - + Press ENTER to establish the setting value
 - + Press STOP to return to main menu and reserve the parameters changed
- **LANGUAGE:** select the displayed language English/Vietnam
- **FANFARE:** set the fanfare signal after each song
- **DISPLAY SCORE (70/80/90/unlimited/off):** set the minimum scoring scale for the song, in case users select "OFF", the device will not scoring at the end of the song
- **AVERAGE SCORE (60-100/70-100/random/off):** average scoring scale
- **BACKGROUND MUSIC (off/10%.../100%):** background music randomly plays when the device in on standby mode (approximately for 5 minutes)
- **SHADOW (on/off):** lyrics will be scanned in black block
- **CHORUS (10%/.../100%/off):** the volume of chorus
- **SINGER (10%/.../100%/off):** the volume of singer's voice
- **COIN/TIME (no/1-7 coin/1-10 minute):** Set the mode to use the coin or count the time
- **TIME LIMITED (no/30 minutes/.../5 hours-30 minutes):** limit the used time
- **TRAY LOCK (on/off):** Lock the tray (MIDI)
- **RUBY:** only have effect to Korean/Japanese
- **DEFAULT SETUP:** restore the original settings
- **GREET FUNCTION:** install greetings, divided into 2 lines. Press ▲▼ and ▶◀ key to select the characters and the color of characters, press ENTER to confirm and select RESERVE before exiting



*** Instruction to install the greetings:**

- The steps are performed as follow:


- + Press SETUP key Code:"0000" Press Down (▼) key select GREETING Press ENTER Press Up/Down/Left/Right key to select the character to be install
- + **SPACE**: space (blank) between two words
- + **DELETE**: delete the incorrect input
- + **RESERVE**: reserve the information installed
- + **EXIT**: exit the application
- + **Sx1/Sx2**: font size

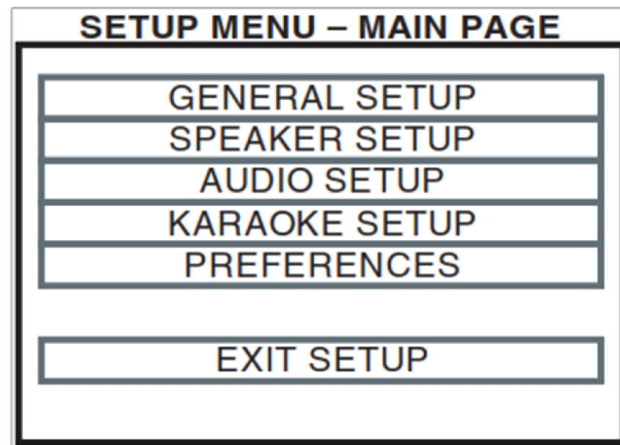
* Note: reserve before exiting

- For example: to install the greeting with the text "MASECO ARIRANG", press SETUP key Code: "0000" Press Down (▼) key select GREETING press ENTER Press Up/Down/Left/Right key to select M A S E C O move to "SPACE" Press ENTER to create a space between two words Then select A R I R A N G press "NEXT" to move to line 2 to continue installing The steps are performed the same as the installation for "Line 1"

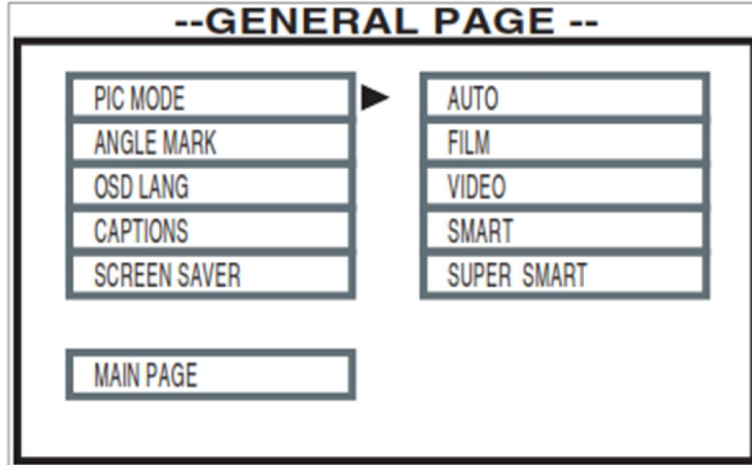


INSTALLATION

- Press SETUP when the device has no disc inside or is playing (DVD/VCD/CD/MP3), use  key press ENTER to select items in the installation
- Press SETUP again or select EXIT to exit the installation



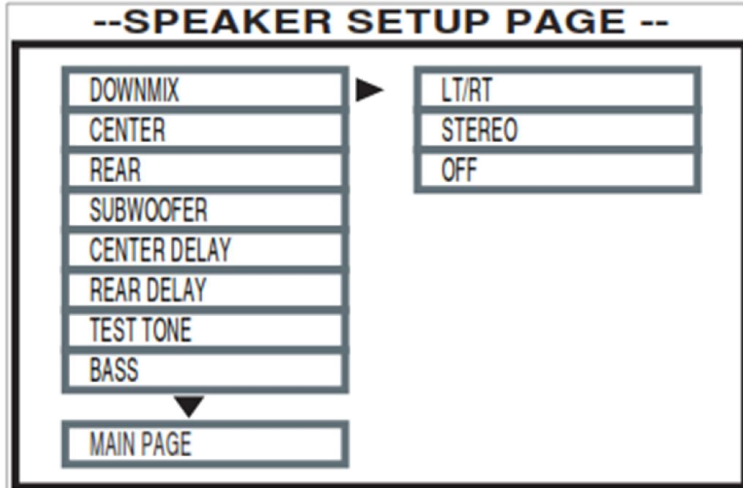
1. General setup:



- PIC MODE: set picture mode
 - + AUTO: set automatic mode
 - + FILM: high scanning mode
 - + VIDEO: set high resolution mode
 - + SMART: set high resolution and scanning mode
 - + SUPER SMART: set high resolution and scanning mode
- ANGLE MARK: view angle (DVD), can view picture from different angles if supported by disc, press ANGLE many times to view each picture angle
- OSD LANG: select displayed language ENGLISH/VIETNAMESE (not supported Vietnamese)

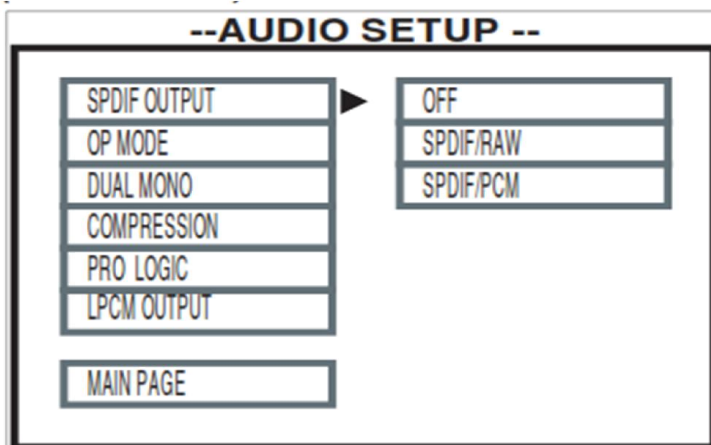
- CAPTION: caption of audio effect (the wind, footstep...), must be supported by DVD
- SCREEN SAVER: set the screen saver, only perform when the device is on STOP/PAUSE mode
- MAIN PAGE: return to the main setting screen

2. Speaker setup:



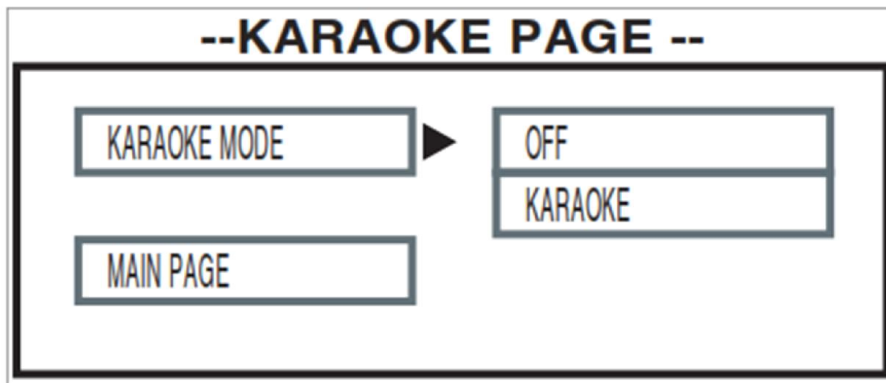
- DOWNMIX: this function changes the audio mixing method at output to suitable for Amplifier or TV
 - + LT/RT: select left/right 2-channel output
 - + STEREO: select separate 2- channel output
 - + OFF: 5.1CH feature is opened
- CENTER: center speaker
- REAR: rear speaker
- SUBWOOFER: subwoofer speaker
- CENTER DELAY: helps adjust the delay of center speaker
 - + Have 4 levels to choose 0-5ms
- REAR DELAY: helps adjust the delay of rear speaker
 - + Have 4 levels to choose 0 -15ms
- TEST TONE: support 5.1CH audio for users to test each output
- BASS: support two functions to play the bass config1/config2

3. Audio setup



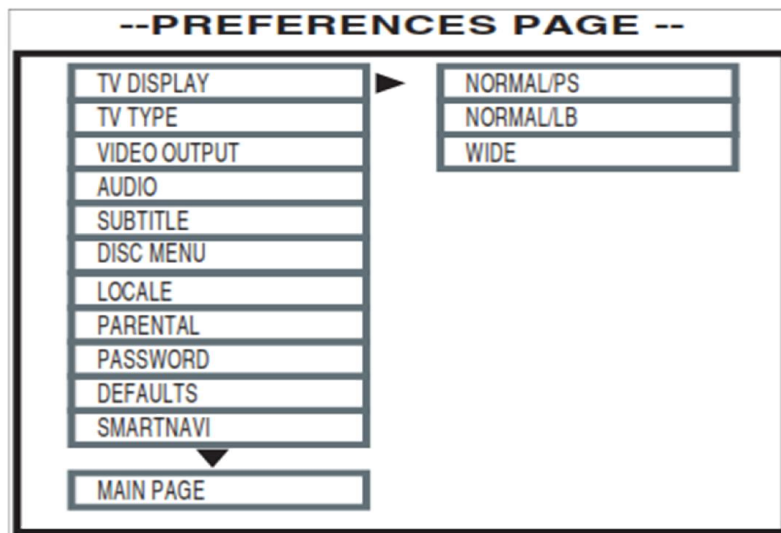
- SPDIF OUTPUT: select audio output suitable with Amplifier
 - + OFF: use normal AV cable to connect with Amplifier Stereo
 - + SPDIF/RAW: connect to digital Amplifier through Coaxial/Optical port
 - + SPDIF/PCM: connect to Amplifier Stereo having support of Coaxial port
 - + OP MODE: have two modes to select LINE OUT/RF REMOD
- DUAL MONO: change mode of output audio
 - + STEREO: separate 2- channel output
 - + L-MONO: select left-channel output
 - + R-MONO: select right-channel output
 - + MIX-MONO: Mix audio of left/right 2-channel
- COMPRESSION: effect of audio compression, only support for DVD with 5.1CH
- PRO LOGIC: create virtual sound effect (DVD)
- LPCM OUTPUT: select sampling frequency 48K/96K

4. Karaoke setup:



+ KARAOKE: help adjust the key, support for DVD/VCD karaoke, MP3,CD

5. Basic installation



- TV DISPLAY: select mode of screen display suitable with TV
 - + NORMAL/PS: display in normal mode 4:3PS, lost picture when displaying in 16:9 mode
 - + NORMAL/LB: display in normal mode 4:3LB but not lost picture when displaying in 16:9 mode
 - + WIDE: only display in 16:9 mode
- TV TYPE: set color system
 - + MULTI: automatically select color system suitable with TV
 - + NTSC: NTSC color system
 - + PAL: PAL color system
- VIDEO OUTPUT: VIDEO output
 - + S-VIDEO: S-Video video output
 - + YPbPr: 3 rays output, use component video cable
 - + RBG: component video port
- AUDIO: set voice-over language if disc supports many languages (DVD)
- SUBTITLE: set the default caption if disc supports many captions (DVD)
- DISC MENU: select default language on MENU if supported by disc (DVD)
- LOCALE: select default area code in DVD play
- PARENTAL: children lock (must be supported by DVD disc)
- PASSWORD: helps change the code, have effect on Karaoke installation. Default password: "0000"
- DEFAULTS: helps restore the original settings of the device
- SMARTNAVI:
 - + NO MENU: not display information menu in CD-ROM/MP3 play
 - + WITH MENU: display information menu in CD-ROM/MP3 play

TROUBLESHOOTING

Technical problems	Repair
No source of supply	Check the power-source cable
Not read disc when press PLAY Press PLAY but then stop immediately	The device cannot read disks that are not in DVD, VCD or CD format Dirty disc
No picture	Check the disk placed in the device with right surface Check the connection with device
No audio Sound distortion	Check the input connections with TV Check the connection with device Check the Stereo input connections with TV
Picture is distorted when fast forward or rewind	At that time the picture signal is slightly distorted, this case is normal
Frame not in 4:3 (16:9)	Adjust the frame size of TV
Remote control not received the signal	Check for installing in right polarity (+,-) Check if the battery is old or not, replace the old battery with a new one Use the remote control far from 7m Remove obstacles between the remote control and the device
No effect when press keys on the device and remote control	Turn off the power and then turn on again
Icon on menu not display or display partly on TV	Select the suitable screen mode by consulting the user's manual of TV
Not read DVD disk	Check the zip code of DVD disk Check the levels of confidentiality in PARENTAL section of SETUP menu
Voice-over language and caption do not exist in SETUP menu	Check the DVD disk having caption support or not
Not have caption on the screen	Check the DVD disk having caption or not Check for turning on the caption or not
Voice-over language and caption cannot be changed	Check the DVD disk having caption support or not
Cannot adjust the screen angle	Check the DVD disk having the screen angle support or not
Not display menu on the screen in VCD play	Check for turning on PBC or not

SPECIFICATIONS

Voltage: AC 90 – 240VAC 50/60Hz

Power Consumption: 14W

Weight: 3.0Kg

Compatible with: DVD Midi Karaoke/DVD/DVD-R/SVCD/ VCD/CD-R/ CD-RW/Mp3/WMA/Mp4 & Jpeg

Output	Video		1VP-P (750)
	S-Video	Y	1VP-P (750)
		C	0.286 VP-P (750)
	Component	Y	1VP-P (750)
		Pb	0.7 VP-P (750)
		Pr	0.7 VP-P (750)
	Audio L/R,5.1CH		2Vrms(max)
Input	Microphone 1,2		10mV(600Ω)