

USER'S MANUAL

AR-18 DELUXE

SPECIAL FEATURES

Support for disks

- MIDI-DVD, DVD, DVD-R, SVCD, VCD, CD, CD-R, CD-RW, MP3, MP4

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 English.
- Reserve the song and clear the reserved song
- 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:

- 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.

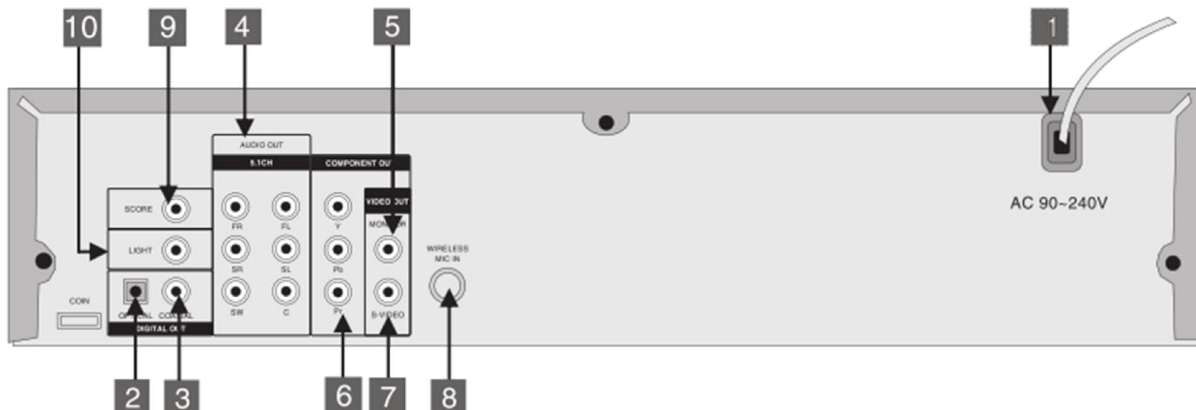
NAME OF EACH PART

Front panel



1. **POWER key:** Turn on/off power
2. **MIC 1/MIC 2:** Use to plug in Microphone
3. **VOL MIC1/MIC2:** increase/decrease the volume of MIC
4. **ECHO VOL:** 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. **PROGRAM:** use to reserve the next song. Can reserve 20 songs
10. **Keys to change Chapter/Track:** For DVD/VCD/CD, this key is used to change each Chapter/Track
11. **Forward/rewind key:** use to fast forward or rewind in DVD/VCD/CD play
12. **STOP:** stop the program being played
13. **Key to load/eject the disc tray:** load/eject the disc tray
14. **Play/Pause key:** pause the program being played, press again to continuous playing

Rear panel:

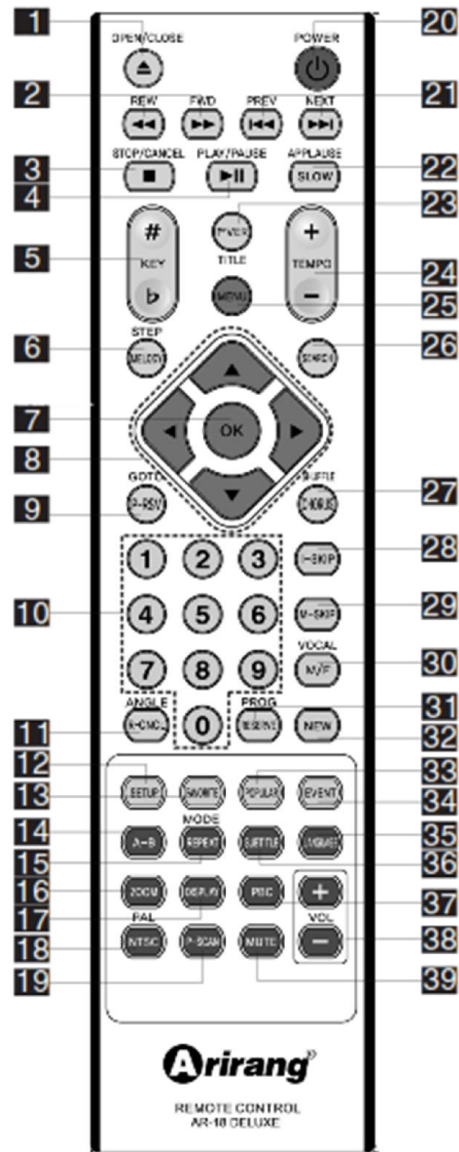


1. **Power-source cable:** plug in AC 90/220V power source
2. **OPTICAL:** optical audio port-used to connect to optical audio input of digital amplifier. Only have effect on DVD, VCD...not have effect on MIDI Karaoke disc
3. **COAXIAL:** coaxial audio port-used to connect to coaxial audio input of digital amplifier. Only have effect on DVD, VCD...not have effect on MIDI Karaoke disc
4. **AUDIO OUT 5.1CH:** 5.1 channel audio port- used to connect to 5.1 audio input of Amplifier
5. **MONITOR:** video port – used to connect to video input of TV or monitor
6. **COMPONENT (Y,Pb,Pr):** component video signal port – used to connect to TV having Component input
7. **S-Video:** standard video port – used to connect to TV having S-video input to create the clear picture
8. **WIRELESS MIC IN:** can connect to wireless micro
9. **SCORE:** scoring port – used to connect to Mic Out port of amplifier to score
10. 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. **OPEN/CLOSE:** use to load/eject the disc tray
2. **REW/FRW:**
 - + MIDI: Fast forward/rewind 10 pages when searching for a song
 - + DVD/VCD: fast browse pictures (x2/x4/x8/x16)
3. **STOP:** stop the program being played
4. **PLAY/PAUSE:** Play/Pause the program being played
5. **KEY:** increase/decrease the key of the song

6. MELODY/STEP:

- + MIDI: Turn on/off the melody of the song
- + DVD/VCD: step forward each frame

7. OK: confirm the previous operation

8. Move: use to move and select function in installation process or in searching for a song

9. P-RSV/GOTO:

- + MIDI: input the code and press this key to reserve the song in priority
- + DVD/VCD: fast move to a chapter/track or a period of time by using Move/Enter key

10. Keys of numbers: use to input the code of the song

11. R-CNCL/ANGLE:

- + MIDI: function to delete the reserved song
- + DVD: effect of DVD view angle (must be supported by DVD disc)

12. SETUP: set the device's configuration

13. FAVORITE: list of favorite song (MIDI)

14. A-B: select the way to repeat

- + DVD/VCD: repeat a selected A-B sections

15. MODE/REPEAT: select the way to repeat

- + MIDI:
 - One tune: default settings
 - Repeat: repeat the selected song
 - Repeat all: continuously play songs after the song being played and continuously play in order
 - Random: randomly play the song
- + DVD: CHAPTER/TITLE REPEAT ON/OFF
- + VCD (PBC OFF)/CD: REP ONE/ALL/OFF

16. ZOOM:

- + DVD/VCD: zoom in pictures being played x1.5/x2/x3

17. DISPLAY: display disc contents being played

18. NTSC/PAL: select color system in video play

19. P-SCAN: Scan the pictures to avoid vibration

20. POWER: turn on/off power

21. PREV/NEXT:

- + MIDI: fast move to a page when searching for a song
- + DVD/VCD: previous/next Track/Chapter

22. APPLAUSE/SLOW:

- + MIDI: effect of applause
- + DVD/VCD: slowly play pictures at the speed x2/x4/x6

23. 1 ST_VERSE/TITLE:

- + MIDI: play a half of song or play a whole song (1st_verse/one tune)
- + DVD: select TITLE in DVD play (must be supported by DVD)

24. TEMPO: change fast (+)/slow (-) tempo of the song (MIDI)

25. MENU: to main MENU in DVD use

26. SEARCH: helps search as per title/author/language (MIDI)

27. CHORUS/SHUFFLE:

- + MIDI: turn on/off the chorus (must be supported by song)
- + DVD/VCD: mode of random play (VCD 2.0 must be turned to PBC OFF)

28. I-SKIP: skip the prelude in the middle of the song; continue playing section 2 of the song (MIDI)

29. M-SKIP: fast move to a short section when the song being played (MIDI)

30. VOCAL/M/F:

- + MIDI: select Male/Female tone, turn on/off singer's voice (must be supported by the song)
- + DVD/VCD: select audio output

31. RESERVE (PROG): input the code and press RESERVE (PROG) to reserve the song (maximum of 20 songs)

32. NEW: List of new songs updated (MIDI)

33. POPULAR: List of popular songs specified (approximately 300 songs)

34. EVENT: List of event songs

35. LANGUAGE: change of voice-over language (must be supported by DVD)

36. SUBTITLE: turn on/off captions (must be supported by DVD)

37. PBC: only support for VCD 2.0 (PBC ON/OFF)

38. VOLUME: increase/decrease the volume of device

39. MUTE: turn on/off sound when the program being played

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 AAA battery



3. Distance and angle to receive signals from the remote control:

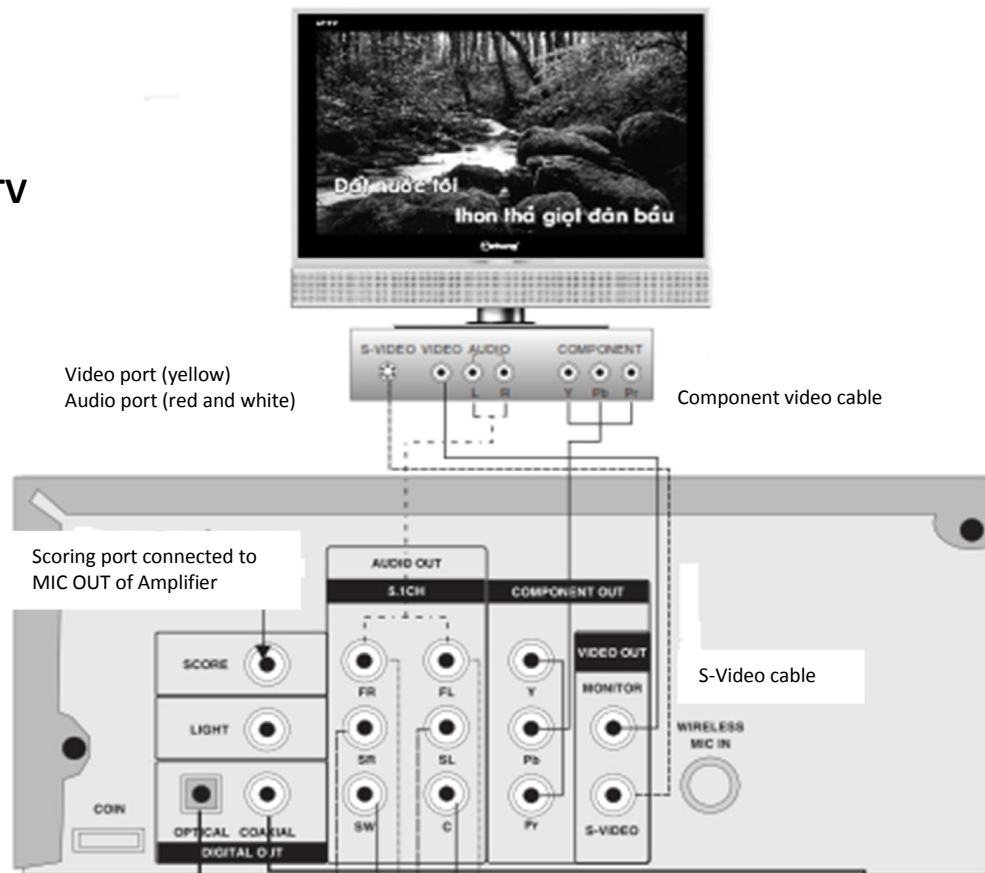
- + The remote control is directed to the device in the range of 30 degrees with a maximum distance of 7M
- + The distance still depends on the space of device installation

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

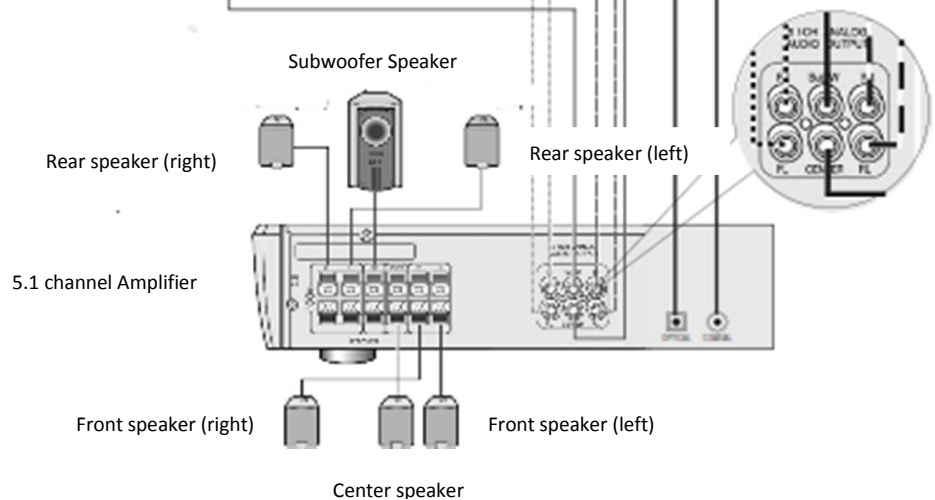
BASIC CONNECTION

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



PLAY DVD/VCD/CD 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-18 Deluxe 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 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



PLAY/PAUSE



- + 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

PLAY MIDI KARAOKE DISC

1. Basic operation:



- + Play: Input the code of the song by using number keys 0-9. Press PLAY or ENTER to play
- + Press RESERVE/PROG key to store and press P_RESERVE to store in the priority
- + Stop: When the device is playing, press STOP key to stop playing and delete the incorrect input
- + R-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. Popular song:



- + Press POPULAR key to display the list of popular songs (approximately 300 songs)
- + Press ENTER after selecting one of the favorite songs in the list
- + Press STOP to exit

6. Favorite song:



- + Press FAVORITE key
- + Select song, press PLAY/ENTER key to play
- + Press STOP key to exit

7. New song:



- + List of new songs updated in new VOL of MIDI disc
- + Select song, press PLAY/ENTER to play, press RESERVE to store (approximately 20 songs)
- + Press STOP key to exit

8. Melody:



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

9. Mode: 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)

VOCAL



10. Vocal key: turn on/off singer's voice VOCAL (ON/OFF). This key only has effect if the song has VOCAL 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

APPLAUSE



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

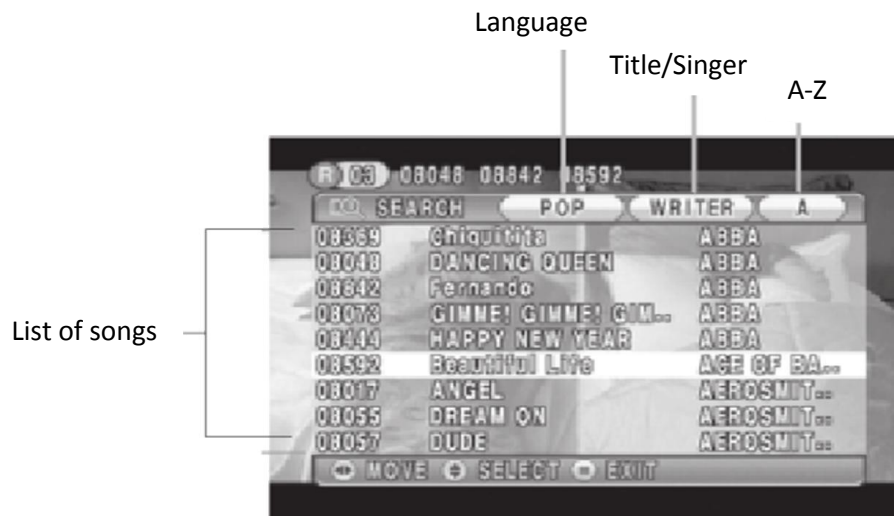
15. MUTE key: Use to turn on/off the volume (Mute on/off)

SELECT SONG BY REMOTE CONTROL



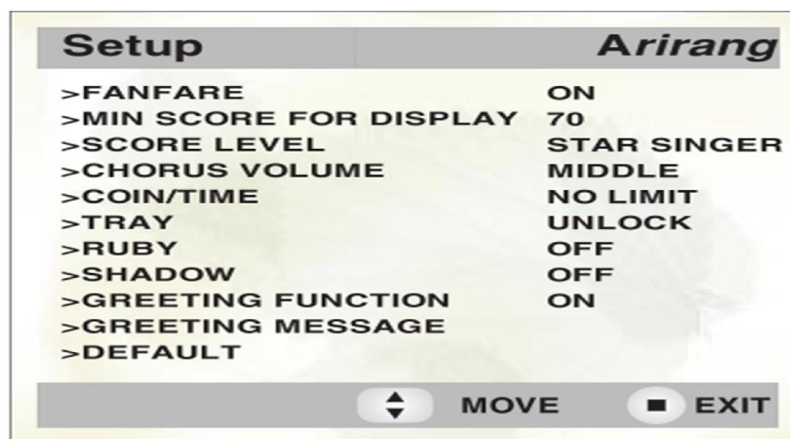
* Function of searching for a song: helps easily searching by SEARCH key.

- + When pressing this key, on screen displays song groups in Vietnamese, English, Chinese... use Left/Right key to move among the items, Up/Down to select.
- + When selecting song groups, song's title and code will be displayed on the screen.
- + Press "PAGE(NEXT(▶▶)/PREV(◀◀))" key to search one page for one time press.
- + Press ◀◀ and ▶▶ to fast searching for 10 pages.
- + Press RESERVE to store the songs (approximately for 20 songs)
- + Press STOP to exit.



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
- **FANFARE**: fanfare signal
- **MIN SCORE FOR DISPLAY SCORE**: the lowest score when the song ends.
- **SCORE LEVEL**: non-professional/average/professional scoring level.
- **CHORUS VOLUME**: volume of chorus.
- **COIN/TIME**: mode to use the coin or count the time.
- **TRAY**: lock the tray (MIDI).
- **RUBY**: only have effect to Korean/Japanese.
- **SHADOW**: lyrics will be scanned in black block.
- **GREETING FUNCTION**: on/off displayed greetings.
- **GREETING MESSAGE**: install greetings, divided into 2 lines. Press ▲▼ and ▶◀ key to select the characters and select EXIT to exit. The device informs reservation "SAVE?YES/NO" select "YES" to reserve and exit.
- **DEFAULT**: restore the original settings of the manufacturer.



*** Instruction to install the greetings:**

- The steps are performed as follow:

+ Press SETUP key-> Code:"0000"-> Press Down (▼) key select GREETING MESSAGE ->Press OK-> Press Up/Down/Left/Right key to select the character to be install

+ **SPACE**: space (blank) between two words

+ **ERASE**: delete the incorrect input

+ **NEXT**: move to line 1 or line 2 to install

+ **EXIT**: exit

* Note: reserve before exiting

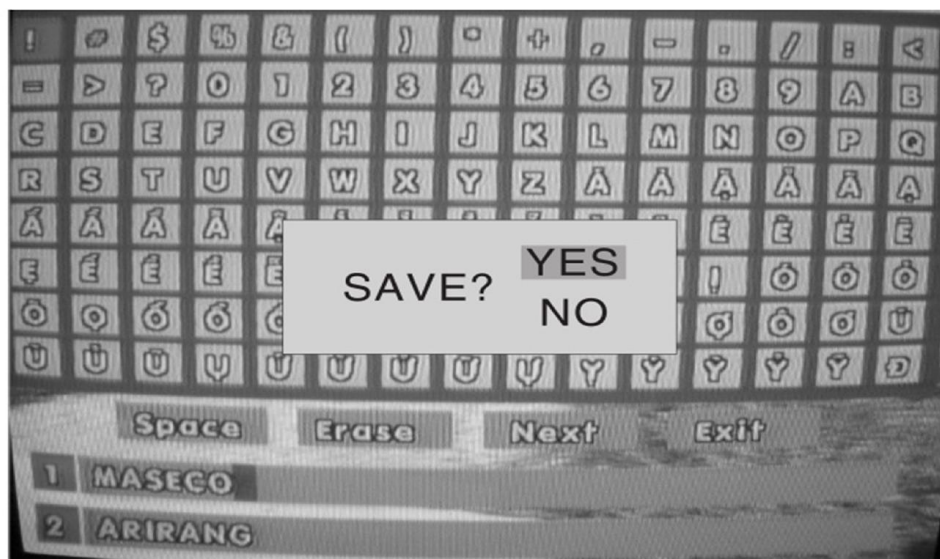
- For example: to install 2 lines with the text "MASECO ARIRANG", press SETUP key-> Code: "0000"

-> Press Down (▼) key select GREETING MESSAGE-> Press OK.

+ Set line 1: press Up/Down/Left/Right key to select M-> Press OK-> continue selecting A->S-> E-> C->O (to create a space between two words, press moving key to "SPACE" word->Press OK).

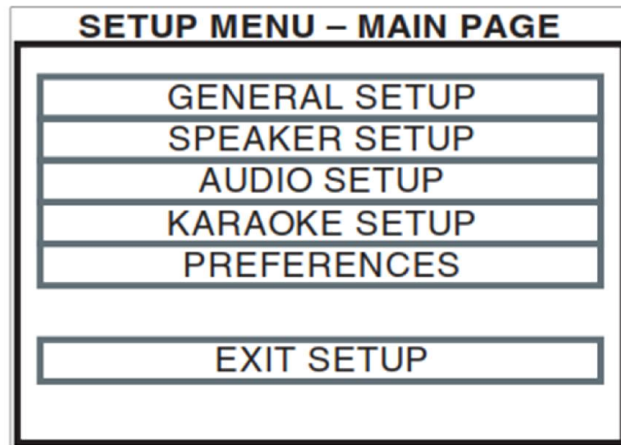
+ Set line 2: select "NEXT" to move to "Line 2" to continue setting-> Then select A->R->I->R->A->N->G, the steps are performed the same as the installation for "Line 1".

- Select EXIT to exit setting, the device will inform that the users need to reserve before exiting, select "YES"

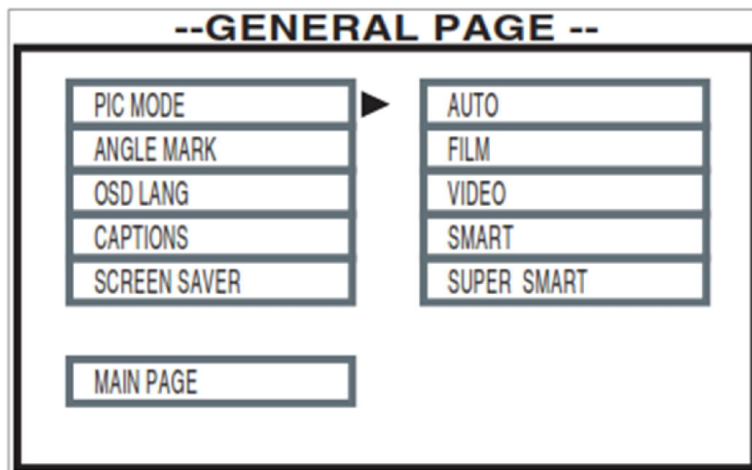


INSTALLATION

- Press SETUP when the device has no disc inside or is playing (DVD/VCD/CD/MP3), use ▲▼ and ◀▶ 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:

--SPEAKER SETUP PAGE --

DOWNMIX	▶	LT/RT
CENTER		STEREO
REAR		OFF
SUBWOOFER		
CENTER DELAY		
REAR DELAY		
TEST TONE		
BASS		
▼		
MAIN PAGE		

- 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

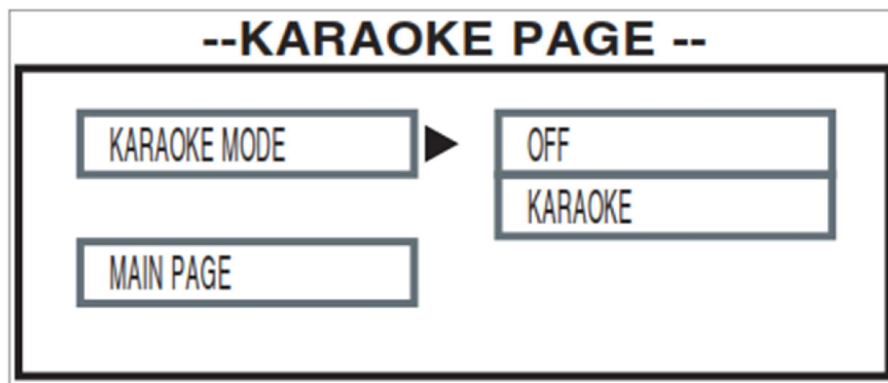
3. Audio setup

--AUDIO SETUP --

SPDIF OUTPUT	▶	OFF
OP MODE		SPDIF/RAW
DUAL MONO		SPDIF/PCM
COMPRESSION		
PRO LOGIC		
LPCM OUTPUT		
MAIN PAGE		

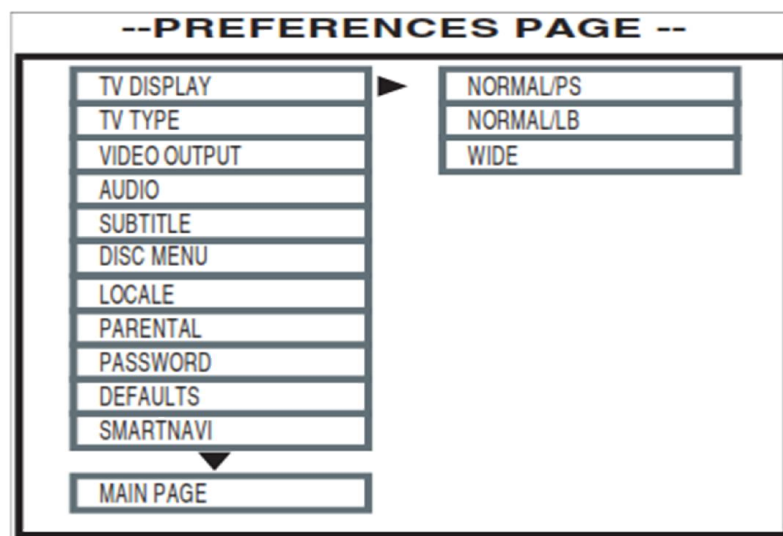
- SPDIF OUTPUT: select audio output suitable with Amplifier
 - + OFF: use normal AV cable to connect with Amplifier Stereo
 - + SPDIF/RAW: connect to digital Amplifier through Coaxial/Optical port
 - + SPDIF/PCM: connect to Amplifier Stereo having support of Coaxial port
 - + OP MODE: have two modes 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 menu in CD-ROM/MP3 play
 - + WITH MENU: display menu

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: 110 – 220VAC-50/60Hz

Power Consumption: 23W

Weight: 5.0Kg

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)