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Important safeguards

The lightning flash sign is intended to alert the user to the presence of dangerous voltage within the product's enclosure. Touching the inner parts may result in a risk of electric shock.

The exclamatory mark is intended to alert the user to the presence of important operating instructions.

To reduce the risk of electric shock or fire, do not open the cover. Refer servicing to qualified service personnel.

This mark indicates that this unit belongs to class 1 laser product. The laser beam may produce radiation harm to the human body when directly touching it.

Important notes

- . Please read through the manual carefully before connection and operation.
- . Do not open the cover or touch any internal components.
- Turn off the power when the unit is not being used. (Unplug the power cord if the unit is not used for a long time).
- Don't expose this unit to direct sunlight. Keep away from heat sources or heat-producing equipment.
- . Don't expose this unit to rain or moisture.
- Use the unit in a horizontal position. Keep the unit ventilated. Don't block the heat hole. Overheat may cause malfunction.
- . Clean the cabinet with a soft cloth. Detergent or alcohol is forbidden.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has
 two blades with one wider than the other. A grounding type plug has two blades and a third
 grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug
 does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- . Unplug this unit during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- . This book is only a guide for user's operation, not a criterion for configuration.

Features

Thank you for purchasing our product. Please go through this manual carefully before connection and operation. Please keep this manual for future reference.

This ARMCO DVD player is a new generation home player, which can reproduce high quality video and audio. Its performance is much better than that of any previous home video playing equipment.

As the best signal source for a home theatre system, it will give you the greatest enjoyment!

- . PCM, etc. digital audio decoder.
- Video DAC 12-bit.
- . Hi-Fi, 192kHz / 24bit audio digital processor.
- Support of MPEG4 Standard: playback of digital video compressed in DivX 3.11, DivX 4.12, DivX 5.11, DivX Pro, XviD (It may not be possible to play certain DivX discs due to the configuration and characteristics of the disc or condition of the recording).
- Software intelligent upgrade.
- High-resolution component video output will support future video equipment.
- · Professional digital Karaoke function (microphone included).
- . Optical, coaxial digital audio output.
- . Multi surround-sound field effects.
- · Compatible with

DVD/DVD-R/-RW/DVD+R/+RW/HDCD/SVCD/VCD/DVCD/CD-R/CDRW/MP3/MPEG4/KODAK PICTURE CD

- Latest fourth generation servo, decoding on single-chip technology, high reliability and stability, and super error correction.
- . Possibility to read the disks of all zones.

Accessories

Accessories

User manual, Remote control, A/V Cable

Remote controller operation

- . Insert the batteries into the cell box. Point the remote control at remote sensor within 8 meters from it and within 30 degrees to the left or right side.
- Take the battery out of the controller if it is not used for a long time.

This unit can play the following types of discs

Disc types Symbol Contents

DVD Audio + Video

Digital Audio

MP3 Audio

Video-CD

(VCD) Audio + Video

CD-DA Audio

Kodak Picture

CD Electronic Photo

MPEG4 Audio + Video

Disk features

- . DVD 5 (single side, single layer)
- . DVD 9 (single side, double layer)
- . DVD 10 (double side, single layer)
- . DVD 18 (double side, double layer)
- VCD 1.01/1.1/2.0
- Picture CD
- DVCD
- CDDA
- MP3
- CD-R
- CD-RW

Disc information

Disc illioilliadoi

TYPE DVD, VCD, SVCD, CD

RECORD

FORMAT MPEG 2, MPEG I, MPEG II, DIGITAL

CAPACITY

Single side, Single layer, 4.7 GB = 2 Hr

Single side, Double layer, 8.5 GB = 4 Hr

Double side, Single layer, 9.4 GB = 4.5 Hr

Double side, Double layer, 17 GB = 9 Hr

650 M, 74 min.

650 M, 45 min.

650 M. 74 min.

DISC SIZE 12 cm / 8 cm 12 cm 12 cm 12 cm / 8 cm

HORIZONTAL RESOLUTION | 500 lines | 240 lines | 350 lines

SUBTITLE Up to 32 kinds

8

LANGUAGE Up to 8 kinds 2 4

SYMBOL

Disk features

Features of DVD discs

Different DVD discs have different combinations of features. This is because of different designs created per order and manufacturer. The following symbols indicate some features of the DVD disc.

Regional code and the video output system

digital surround sound

digital cinema surround

Audio track

Video aspect ratio

Subtitle

Parental lock

Angle

5.1/2.1 sound channel output

Hiding subtitle

Two channel stereo

Restriction

Disk features

Handling discs

- . When handling a disc, please hold it by its rim.
- . When playing discs, be sure the label side is upwards
- . Do not grasp the non-label side of the disc.

Disc storage

- . Never store discs in a place with high temperature, strong light or humidity.
- . Put the disc back in the case after playback.

Cleaning

- . Wipe the discs from time to time using a soft cloth. Always wipe from the center towards the edge.
- . Do not use common detergents to clean the disc.
- . Protect discs against any fingerprint, do not stick or write anything on the surface of the disc.

Disk features

About Disc Terms

Title

Generally, pictures or music compressed on a DVD are divided into several sections accessible through: 'TITLE'

Chapter

A film, picture or music is split, on the DVD, into smaller sections or files. Usually a title refers to one or more chapters and each of them is numbered for easy searching. Some DVDs do not have this function, however.

Track

A segment of picture or music on a SVCD, VCD or CD. Each track is numbered for searching

VCD with playback control function, on which active and still pictures are divided into certain portions, called scenes. Every scene will be shown on the screen menu with a scene number that can be easily found while playing. A scene is usually formed with one or several tracks.

PBC function (SVCD,VCD)

If a SVCD or a VCD is played a content menu may be shown on screen. This is what is called 'Play back control' viz. PBC function.

Disc sort Functions

VCD without PBC function

(1.1 version) Exhibiting both music and images.

SVCD/VCD with PBC

function (2.0 version)

Besides VCD picture playing on screen, menu can be used for PBC playback, and if stillness function is added to the disc, it also can be played with high definition.

Remote control

- 1. Standby button(STANDBY)
- 2. Button to enter program menu(PROG)
- 3. V-Mode button(V-MODE)
- 4. PBC button(PBC)
- 5. Setup button(SETUP)
- 6. Audio button(AUDIO)
- 7. Menu button(MENU)
- 8. Title button(TITLE)
- 9. Repeat button(REPEAT)
- 10. Time button(TIME)
- 11. Play/pause button
- 12. Fast forward/revers /next/previous button
- 13. Stop button
- 14. Select left /right /up/down
- 15. Volume(+/-) button
- 16. Mute button
- 17. Select left channel/right channel/ stereo/mix audio output L/R/ST
- 18. Open/Close buttons(OPEN/CLOSE)
- 19. Numbered buttons (1-9,0, 10+)
- 20. Subtitle button(SUBTITLE)
- 21. Angle button (ANGLE)
- 22. Cursor buttons/Enter buttons (ENTER)
- 23. A-B repeat button(A-B repeat)
- 24. Return button(RETURN)
- 25. Random button(RANDOM)
- 26. OSD button (OSD)
- 27. Slow button (SLOW)
- 28. TV Zoom button (ZOOM)
- 29. Copy button (COPY)
- 30. DVD/USB button (DVD/USB)

Connection

Before connection

Disconnect the AC power supply.

Video system connection

The following available video outputs can be used on this unit.

S- Video Y Cb/Pb, Coaxial, Optical

Video Cr/Pr Input

Video and Component

S-Video video output

Composite Video

Use the AV cable (yellow terminal) to connect composite video output from this unit to the TV/monitor video input.

S-Video

Use the S-video cable to connect the s-video output of this unit to the TV/monitor S-video input.

Component Video (YUV)

Use a 3-core AV cable to connect the component output terminals of this unit to the corresponding TV/monitor input.

Notes:

- . Which connection to use depends on the TV/monitor input terminal.
- . Don't use all the connections at one time, otherwise the picture will be affected.
- Only the physical connection conforming to the video setting can produce a normal picture (refer to the Video Setup in System Setup).

Connection

Audio connection system

There Are two types of audio output systems: analog audio and digital audio. Analog audio includes 2- channel stereo and 5.1 channel output. Digital audio includes optical and coaxial outputs.

Stereo audio

Use a pair of AV cables (red for right and white for left) to connect the stereo audio output of this unit to the TV or the stereo input of a power amplifier.

5.1 channel Analog audio (optional)

Use 3 pairs of AV cables to connect the 5.1 channel output of this unit to corresponding 5.1 channel input terminal.

Coaxial Digital Audio

Use the special coaxial cable to connect the coaxial output of this unit to the coaxial input of a

Connection

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DUAL MONO

□Stereo □ stereo output signal,

□L-Mono□ left output signal,

□R-Mono □ right output signal.

■Mix-Mono□ averages the left and right output signals.

DYNAMIC

Use this when watching a large dynamic-scope movie at night. Selecting this mode you can reduce the volume to a very low level, at the same time as keeping the fine details of sounds. In this case you won't disturb the sleeping family and yet maintain the high quality of the sounds.

CHANNEL DELAY (Doesn't exist in 2CH DVD)

If the above setup doesn't satisfy you, you can move the speakers around. You can set them as being father apart or closer as follows:

Press the key UP/DOWN to select the speaker, Press the key LEFT/RIGHT to adjust the distance.

EQUALIZER SETUP

System Setup

. SOUND MODE (Does not exist in 2CH DVD)

Seven EQ modes are available. You can select one according your preference and the disc content

• SELECT BASS BOOST, SUPER BASS OR TREBLE BOOST

□On□ strengthens the corresponding audio.

3D PROCESSING (Doesn't exist in 2CH DVD)

In PROLOGIC ON mode, the reverb mode setup is available. The initial factory setup is off.

PRO LOGIC II

□On □ means 2CH music is switched into 5.1CH music and can be played with multi channel speakers while in 'Off' status this has no effect. If a disc does not support this function, we suggest putting in the 'Auto' position. When playing a digital DVD, the function setting must be switched on or put in auto.

MODE

Music All sound arrives in an enhanced mode, without delay.

System Setup

Movie At the surrounding channel plus 10ms delay.

PRO LOGIC mode imitates PRO LOGIC I adopting logic 2 analogs and methodology.

Auto means auto selecting mode according to the disc type being played.

Only under 'audio out' status, and '5.1CH' being chosen, can 'PRO Logic' be set. While in 'PRO Logic', and choosing 'On' you can go into next 'Mode' menu.

PANORAMA

'On' means the front stereo extends to both sides, with a better sound-surround sense.

. DIMENSION

Similar to front and rear balance control. Gradually adjusts the front and rear sound fields and there are 7 musical scales to chose from.

SELECT CENTER WIDTH

Adjusting center channel signal and dividing left /right CH, to let the signal emit from 3 front speakers at different degrees.

HDCD (Doesn't exist in 2CH DVD)

You can select the digital filter at 1x or 2x. The initial factory setup is off.

System Setup

KARAOKE SETUP

- MICROPHONE SETUP
- MIC

You can switch the microphone on or off.

Adjust the microphone 1 volume level.

MIC VOL 1 ECHO LEVEL

Adjust the microphone echo level.

MICROPHONE THRESHOLD

Set the microphone threshold.

System Setup

VIDEO SETUP

VIDEO OUTPUT

YUV: set video output in analog component video format when connecting to Y/U/V terminals

TV MODE

You can choose between progressive and interleaved output when playing with 'YUV' or 'RGB' Mode.

QUALITY SETUP

You can set the SHARPNESS, BRIGHTNESS, CONTRAST, GAMMA, HUE, SATURATION, and LUMA DELAY according to your preference.

System Setup

PREFERENCE SETUP

TV TYPE

This unit is suitable for all kinds of TV systems, You can select any one of PAL, NTSC or MULTI. MULTI: the TV system is auto switched according to the disc system.

NTSC: this system is used in USA, Taiwan, Japan etc.

PAL: this system is used in China, Europe, Hongkong, Kenya, Uganda, etc.

Set PBC with 'On off'. PBC 'On', means the function is available. 'Off', it is not available.

AUDIO, SUBTITLE, DISC MENU LANGUAGE SETUP

These are the initial settings according to your preference. If a setting is supported by the disc's content, it will work. Otherwise the disc default value works. And these settings can be changed respectively by pressing the [AUDIO] and [SUBTITLE] key when playing.

PARENTAL:

This control is for a parent to control the content being played and to protect children from violence and eroticism on screen. Any disc, the level of which is higher than the setting level, cannot be played.

COUNTRY REGION

Considering that all country's recommend the age level of viewers, you can choose a corresponding age-setting for China, France, Hong Kong, Japan, Taiwan, Eng, USA and so on.

DEFAULT

Reset to the initial factory setups

System Setup

PASSWORD SETUP

Change the password. The initial factory password is 136900. You can set your own password. If you forget your own password, you can use 136900 as a general password.

Play

OPEN/CLOSE

Press OPEN/CLOSE button when the power is on. The disc tray is pushed out. Put the disc on
the tray with the title face up. Press OPEN/CLOSE again to close the disc tray and the unit starts
playing automatically. (Without auto-play function for mp3 and JPEG discs).

STANDBY

When playing, press STANDBY button. The machine will power-off and go into standby state;
 Press STANDBY again and the machine will power-on and start playing.

Warning: The power is not fully cut off in the standby state. If the machine will not be used for a long time, turn off the power by pressing the POWER button on the front panel.

TITLE

. When playing a DVD disc, press TITLE to return the main title display.

V-MODE

Press V-MODE button to switch the video output mode between the options: (YUV-RGB-VGA, etc.)

AUDIO

 When playing a DVD with more than one audio stream, press AUDIO to select your desired preference.

SUBTITLE

 When playing a disc with multi-subtitles, press SUBTITLE continually and the subtitle will change cyclically. You can then select the one you prefer.

ANGLE

 This DVD player supports multi-angle functions. Multi-angle means that a scene is shot from more than one angle so that the audience can watch from any angle. If there are multiples in a scene, you can use the ANGLE button to select the angle you like to enjoy. Press the ANGLE button continuously to view different angles.

L/R

 When playing super VCD (SVCD), VCD, CD disc with multi-channel, press L/R button to select left channel/right channel/stereo/mix audio output.

Play

MENU

When playing a DVD disc, press MENU once to go to the sub-menu. Press MENU again to return

to the main menu.

When playing SVCD, VCD2.0 disc, press MENU and the disc menu will show. You can select
your choice from the menu. After loading the disc, the unit will enter MENU ON play automatically.
 Press MENU button, the TV screen shows PBC OFF. In this mode, the menu will not appear, press
digit key to select the track directly. VCD1.1. CD-DA and Mp3 have no PBC menu.

123

4567

8 9 10 10+

 When playing a VCD 1.1, CD, MP3 disc, after loading the disc, use the digit key to select the desired track or chapter directly. Press 10+ key and then another digit key to select the track whose number is 10 or higher.

You can press digit keys at PROGRAM and MENU selection.

STOP

 When playing a DVD, SVCD, VCD, CD disc, press STOP once. The unit will memorize the previous ending point. Press PLAY button to go on to play. Press STOP for the second time to stop the play and cancel memory.

PLAY/PAUSE

 When playing the disc, press PLAY/PAUSE once to pause. Press PLAY/PAUSE again to return to normal play.

STEP

When playing a DVD, SVCD, VCD disc, press STEP once. The picture changes to next frame.
 Press PLAY to resume normal play.

PREV/NEXT

- . When playing a DVD disc, press PREV for the previous chapter.
- . When playing an SVCD, VCD, CD disc, press PREV to go to the previous track.
- . When playing a DVD disc, press NEXT to go to the next chapter.
- . When playing an SVCD, VCD, CD disc, press NEXT to go to the next track.

RANDOM

 When playing an SVCD, VCD, CD, MP3 discs, press RANDOM to let the unit itself select the playing order in a random way.

Play

PROGRAM

- If the disc has 2 or more tracks, chapters or titles, set up the playing order as per your preference.
 Press this button to enter program menu.
- Press digit key to input the number of the track, title or chapter. If the programmed tracks are over ten, press NEXT to go on programming. (Maximum 20 programmable items) use the up/down/left/right key to move the cursor to the START. Press ENTER to start PROGRAM play.
- There is no program function for playing an MP3 disc! Press PROGRAM button once to enter DIRECTORY-PLAY mode. You can't select the file to play in the current directory. Press PROGRAM again to enter FILE-LIST mode. You can select the file to play in the file list of the whole disc.

REPEAT

- . Press REPEAT button to repeat a title, chapter, track or the whole disc.
- When playing a DVD disc, press the REPEAT button continually. The TV screen shows chapter repeat, title repeat, all repeat, repeat cancel in turn.
- When playing an SVCD, VCD, CD disc, the series runs as track repeat, all repeat, repeat cancel.

- When playing an MP3 disc, the series is single repeat, directory repeat, repeat cancel.
- A B
- . When playing a DVD, SVCD, VCD, CD disc, press A-B button to repeat certain contents.
- Press A-B key at the start point wanted (A) and the ending point (B) to select the part to be repeated.
- Press A-B the third time, cancel A-B repeat and return to normal play.

TIME

 Press the TIME button to select title time, chapter time, and track time to play. You can use digital keys to input the times desired.

ZOOM

- . When playing a DVD, SVCD, VCD disc, press ZOOM to zoom in or zoom out of the picture.
- In zoom in mode, press up/down/left/right to move the picture for viewing. The picture cannot be moved in zoom-out mode.

VOLUME

- . Press VOLUME + to adjust volume up
- · Press VOLUME to adjust volume down

MUTE

Press MUTE button. No sound will be heard and the mute symbol will display on the TV screen.
 Press MUTE again, MUTE OFF will display and the sound will resume.

OSD

Press the OSD button. The relative information of the disc will display on the TV screen.

Note: A few of the buttons are not necessary for some types of machines. Normal operation will not be affected without them!

Play

KARAOKE

- •The Karaoke disc should be in the DVD VCD format containing music and subtitles.
 The Karaoke disc should show users the song parts and when one should sing the song. It is necessary to use one or two microphones (one piece is included).
- . Connect a microphone to MIC 1 socket on the rear panel of the DVD player.
- Use the microphone volume knob to adjust the microphone volume.
- . Put Karaoke disc into DVD player and it will start automatically and at once.

PLAY PICTURE CD DISC

- . Press STOP key, 12 small pictures will show on the TV screen.
- Press up/down/left/right to select the desired picture.
- . Use up/down/left/right key to select RANDOM, then press ENTER to start random play.
- Use up/down/left/right key to reach 'INSTRUCTION.' Then press ENTER to go into the instruction menu.

Instruction menu is as follows:

[PROGRAM]: to change picture transform mode;

[STOP]: entering picture preview mode;

[PREV]: previous picture;

[NEXT]: next picture;

[PLAY]: to play picture:

[UP]: mirror image in vertical;

[DOWN]: mirror image in horizon;

[LEFT]: rotate 90 degrees anticlockwise;

[RIGHT]: rotate 90 degrees clockwise:

[ZOOM]: change zoom mode;

[FAST FORWARD]: zoom the picture in;

[FAST REWIND]: zoom the picture out;

[UP/DOWN/LEFT/RIGHT]: move zoom center around

select CONTINUE to exit.

FOR MPEG-4, MP3 AND JPEG DISC

Insert an MPEG-4, MP3 or JPEG disc, after loading of the disc, the disc menu will be shown on the screen.

Plav

- 1.Current frequency
- 2.Playback indicator
- 3.Volume
- 4. Total playback time
- 5.Elapsed time
- 6.Track number
- 7.Document folder
- 8.Dynamic Frequency indicator
- 9.Status indicator
- 10.Directory window
- 11.Sliding block
- 12.Preview window
- 13.Information window

MP3 PLAYBACK

- . MP3 is the third audio compression format of international standard MPEG, which compresses the audio signal at the rate of 12:1. Using MP3 format, one disc can record more than 600 minutes of music, the timbre of which is similar to that of CD discs.
- . There are many different formats for storing MP3 songs. Usually, one MP3 disc includes many folders (directories) and every folder includes several files (songs).
- In stop status, use the LEFT/RIGHT directional navigation arrows to move cursor to □PLAY MODE column, and use the UP/DOWN directional navigation arrows to select the play mode. Press the LEFT/RIGHT directional navigation arrows to confirm. Similarly, use the UP/DOWN directional navigation arrows to select the directory you want and press the ENTER button to enter it. Press the PLAY button to play the song you selected

Symptom	Cause(s)	Solution
No power	The power cord is not connected	Connect the power cord properly
No picture	TV video setup is not correct. ii. Player video setup is not correct. iii. Video cable is not connected well.	Select the suitable setup. Select the suitable setup. Connect the cable properly.
No sound	I.Audio cable is not connected well. II. Power is off for the connected equipment. III. Audio setup is not correct.	Connect the cable properly. ii. Turn on power. iii. Select the sultable audio setup.
Distorted picture	Dirty disc. ii.In fast forward or fast rewind mode.	i. Clean the disc.
Sometimes a tiny distortion appears.	This is normal.	
Luminance unsteady or picture with noise	i. Anti-copy circuit influence.	ii. Connect the DVD unit to TV direct
Unable to play Without disc.	I.Disc is bad. II.Disc is put upside down. III.Dirty disc.	Replace disc II. Insert disc properly, III.Clean the disc.
There is a menu on TV screen.	i. Parental control is working.	I.Use SETUP to turn off menu. ii.Set parental control to off or change the setup.
Key malfunction	i.Power wave or other static interference.	i.Turn on / off the power and try again
Remote control does not work	Remote control is not pointed at the sensor. Remote control is too far from DVD unit. Batteries are weak.	Point the remote control at the sensor. Operate the remote control within meters. III. Replace the batteries.
Cannot locate any channels in tuner mode	Antenna is not connected. Source mode is not in tuner mode.	i. Connect antenna. ii. Switch to tuner mode.

any channels ii. Sou in tuner mode mode.

Specification

opeomeanem			
Loader	Slim		
Appearance	Front panel with blue back light		
Colour	Black		
Formats of disks	DVD, DVD-R/+R/+RW, CD-R/-RW		
Formats of playback	DVD, DVCD, SVCD, VCD, CDDA, MP3, HDCD		
Support of MPEG4	Standard		
Playback of digital video compressed in	DivX 3.11, DivX 4.12, DivX 5.11, DivX Pro, XviD +		
Support of MPEG4	Standard		
Playback of digital video compressed in	DivX 3.11, DivX 4.12, DivX 5.11, DivX Pro, XviD +		
Compatibility	Supports DVD disks of all zones + Audio DAC 192 kHz / 24-bit +		

More

More:			
1.	Digital decoder +	17.	2.1/5.1 audio +
2.	decoder -	18.	Karaoke +
3.	Audio	19.	Screen saver +
4.	Prologic II +	20.	Zoom +
5.	Solution MTK	21.	3D sound effects +
6.	Video DAC 12-bit +	22.	Equalizer +
7.	Progressive scan +	23.	Children lock +
8.	Video	24.	Multi-shooting angel +
9.	Support NTSC / PAL +	25.	AC/DC
10.	Composite +	26.	Multilanguage OSD +
11.	S-Video +	27.	Impedance 620 □hm
12.	Component (YUV) +	28.	Sensitivity 72 dB
13.	Stereo +	29.	Direction 1800
14.	Optical +	30.	Length of cable 1,2m
15.	Coaxial +	31.	Additional Power supply ~240 V, 50Hz
16.	Connectors		

HDMI Function

- 1.Connect the HDMI cable
- 2.Press SETUP button into system setup, goto HDMI setup under the menu of VIDEO, then press ENTER button to choose this function
- 3.Goto RESOLUTION to setup the output quality, Press up \(down\) left and right button to choose which you like, then press ENTER button it will play what you have chosen.