

KEC[®] MOBILE APPLICATIONS

MODEL: DVD-2 / DVD-2T

INSTALLATION INFORMATION & OPERATING INSTRUCTIONS

THIS PRODUCT IS INTENDED FOR PROFESSIONAL INSTALLATION ONLY

**FOR MOBILE-SPECIFIC 12 VOLT DC-ONLY OPERATION
PLEASE READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT**



IMPORTANT INFORMATION



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

CAUTION: DVD PLAYERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTED.

CAUTIONS

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

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

This class B digital apparatus meets all requirements of the Canadian Interference -- Causing Equipment Regulations.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

IMPORTANT SAFETY INSTRUCTIONS

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

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing.

This unit is fully transistorized and does not contain any parts that can be repaired by the user.

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

1. **Read owner's manual**

After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.

2. **Power Sources**

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

3. **Grounding or Polarization**

This product is 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 to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

4. **Ventilation**

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. In summer, ventilate for 10 minutes before playing Disc. In winter, play Disc after igniting the car.

5. **Heat**

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products including amplifiers) that produce heat.

6. **Water and Moisture**

Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool and the like.

7. **Cleaning**

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

8. **Power-Cord Protection**

Power-supply cords 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 cords at plugs, convenience receptacles, and the point where they exit from the product.

9. **Overloading**

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

10. **Lightning**

For added protection of this product during storms, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

11. **Object and Liquid Entry**

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

12. **Attachments**

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

IMPORTANT SAFETY INSTRUCTIONS

13. **Accessories, Carts, and Stands**

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should 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.



14. **Disc Slot**

Keep your fingers well clear of the disc slot as it is closing. It may cause serious personal injury.

15. **Burden**

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

16. **Connecting**

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

17. **Sound Volume**

Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

18. **Sound Distortion**

Do not allow the product to output distorted sound for a long time. It may cause speaker overheating and fire.

19. **Laser Beam**

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

20. **Disc**

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

21. **Damage Requiring Service**

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power-supply cord or plug is damaged.
- b) If liquid has been spilled, or objects have fallen into the product.
- c) If the product has been exposed to rain or water.
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e) If the product has been dropped or damaged in any way.
- f) When the product exhibits a distinct change in performance—this indicates a need for service.

22. **Servicing**

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

23. **Replacement parts**

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

24. **Safety Check**

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

TABLE OF CONTENTS

Important Information	2
Important Safety Instructions	3
Table Of Contents (<i>this page</i>)	5
General Information About Discs	6
Care & Storage Of Discs	7
Description	
Front Panel	8
Front Panel Display	9
Rear Panel	10
Important Safety Instructions Regarding The DC IN Jacks	11
Accessories	11
Remote Controller	12
Installing Batteries In The Remote Controller	14
Using The Remote Controller	14
Battery Handling Precaution	14
Remote Controller Handling Precautions	14
Connections	
Video Connections To TV Or Monitor	15
Audio Connections	16
Antenna Connection (<i>DVD-2T Only</i>)	17
Setting The DVD-2T For Air Or Cable Channel Reception	17
Before Playing A Disc	18
Playing A Disc (DVD/VCD/CD)	19
Playing An MP3 OR WMA Audio File	20
DVD-2 Setup Menus	
General Information	21
Language Setup Menu	22
Restoring Factory Defaults	22
Video Setup Menu	23
Audio Setup Menu	24
Parental Control Password & Rating Setup Menu	25
Advanced Operation & Special Features	
DVD Title Menus	26
DVD Disc Menus	26
MODE Button – Repeating Chapters, Titles Or Tracks	26
A-B Button – Repeating A Selected Section	27
ZOOM Button – Magnifying The Screen	27
ANGLE Button – Viewing Scenes From Differing Angles	27
PBC – Playback Control	27
GOTO Button – Locating A Specific Point On The Disc	28
Viewing JPEG Files	28
Reference	
Specifications	29
Menu Structure	29
Troubleshooting Guide	30
KEC Mobile Applications Tri-Mode Remote Controller # RC9799	31

GENERAL INFORMATION ABOUT DISCS

DVD's (*Digital Versatile Discs*) can record up to 135 minutes' of video, 8 different language audio tracks and subtitles in up to 32 languages.

You can enjoy cinema-like video and crystal clear sound with MPEG-2 compression technology and Dolby Digital surround.

Important Note About Region Numbers

This DVD Player and most DVD Discs are coded by region. These regional codes must be matched in order for the disc to be played.

If a disc's region number (*which indicates its playable area*) does not match the region number of this DVD Player, disc playback will not be allowed by the player.



Discs with a region number of 0 may be played on any DVD Player.

The region number of this DVD Player is labeled on the rear panel of the main unit.

This DVD player's region number is 1.

Discs That Can Be Played



WMA (Windows Media Audio files)

JPEG/JPG (Joint Photographic Experts Group files)

Discs That Cannot Be Played

- This DVD Player can not play LD, CD-G, CD-I, CD-ROM, DVD-ROM.
- This DVD Player *might* not play discs obtained outside the region.

(When  appears on screen, it indicates that an invalid button press.)

Copy Protection

- Most commercial DVD discs are encrypted to prevent disc copying.
- This product incorporates copyright protection technology that is protected by the methods of claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation, and is intended for home and other limited viewing uses unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

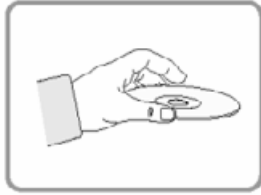
- This product is manufactured with technical cooperation from Dolby Laboratories.

This symbol and trademark are reserved for Dolby Laboratories.

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CARE & STORAGE OF DISCS

How to handle a disc



- Be careful in handling the disc. A slight flaw might affect the picture on the screen.
- You can remove a disc from its storage case without difficulty by pressing the center of the holder.
- Please refer to the illustration on the left and do not touch the surface of disc when moving it.
- Do not paste paper or adhesive tape onto the disc.
- Be careful not to leave fingerprints or stains on the disc. Wash your hands before handling the disc.

Caution Be careful not to leave dirt or other substances on the disc.
Do not attempt to play a cracked or scratched disc.

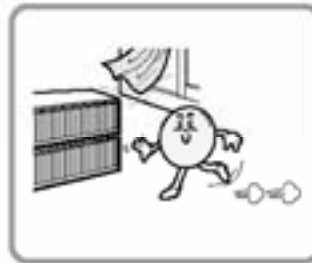
Disc Storage



Do not expose to direct sunlight.



Keep in a cool ventilated area.



Store vertically in a clean protective jacket.

Important Note

Exposing the DVD Player or a DVD Disc to a sudden temperature shift from cold to warm may lead to condensation (Dew Formation) on the surface of the disc or on the lens of the player.

This condensation may cause the player to *temporarily* malfunction or *temporarily* deliver poor performance.

To clear up this problem, turn the player on and allow it to warm up. Any moisture will evaporate in an hour or two and proper operation will be restored.

How To Clean The Disc



Clean the disc from the center to the outside using a clean soft cloth that has been slightly dampened with a mild detergent solution.
Follow up with another clean dry soft cloth.

Reference

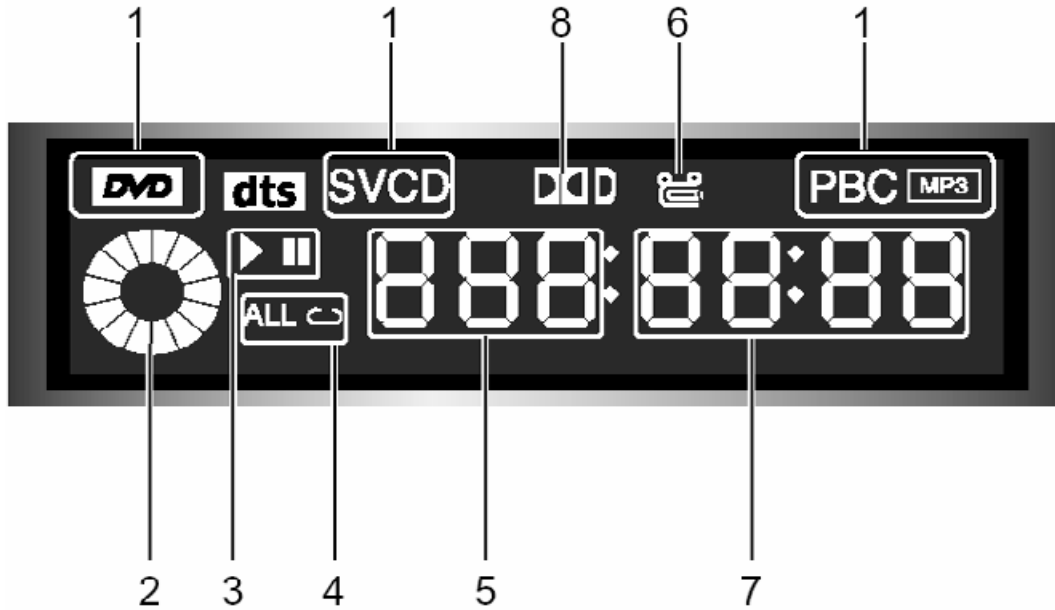
Do not use thinner, benzene, commercial detergent, alcohol or electrostatic-prevention spray. All of these might cause irreparable damage to the disc.

DESCRIPTION – FRONT PANEL



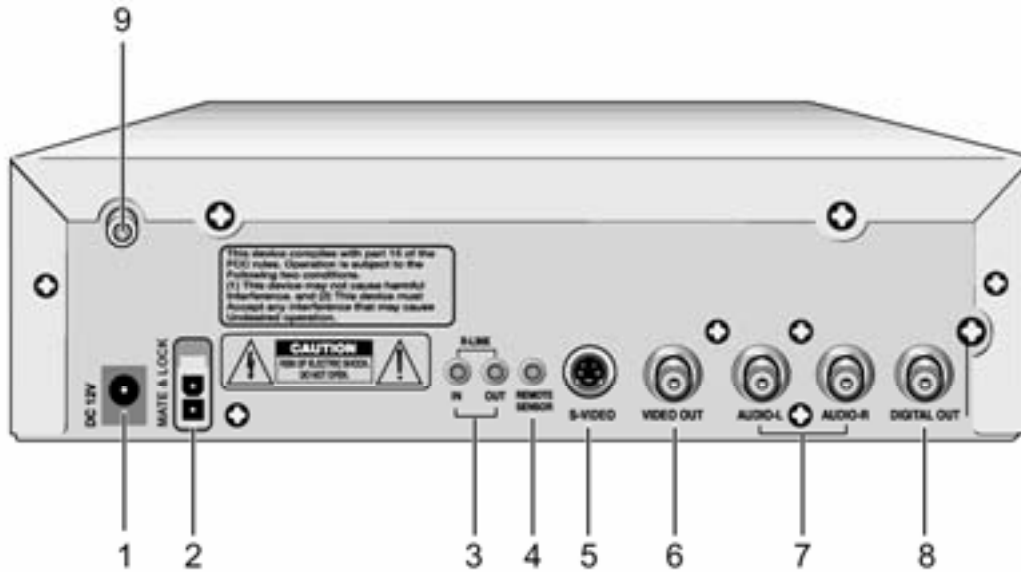
1	POWER	Turns the power On/Off (When power is Off, AUX Inputs are On) (DVD-2T: Press repeatedly to cycle between Disc Play, TV Tuner & Off)
2	Disc Slot	Discs are inserted and ejected here
3	EJECT	Ejects the disc
4	STOP	Stops disc play
5	PLAY	Begins disc play
6	SKIP	Use to skip to the next or previous scene or music track (DVD-2T: Advances to the next or previous channel)
7	Display Window	Displays information about the current state of the DVD player and disc
8	AUX Inputs	Auxiliary Video/Audio Inputs These inputs are "live" whenever power is off
9	Trim Plate	

DESCRIPTION – FRONT PANEL DISPLAY



1	DVD/SVCD/VCD/CD/PBC/MP3	Indicates the type of the disc in the player
2	Disc Graphic	Animation indicates that a disc in the player is spinning
3	Play/Pause	Indicates the current operation mode
4	Repeat/All	Indicates the current repeat play mode
5	Chapter/Track	Indicates the chapter and/or track of the disc being played
6	Angle	Indicates that the current selection may be viewed at multiple angles
7	Time	Indicates time information & displays information about operation (DVD-2T: Indicates channel when in TV mode)
8	Dolby Digital	Indicates that the audio of the disc under play is Dolby Digital

DESCRIPTION – REAR PANEL



1	12V DC INPUT	For use with optional 12V DC cigar jack cable
2	MAIN 12V DC INPUT	Connect to source of 12V DC power with the supplied cable
3	R-LINK IN/OUT	Allows remote control of any KEC Mobile Applications video product in the R-LINK <i>chain</i> even if it is hidden from view.
4	EXTERNAL REMOTE	For connection of the optional RE5MC Remote Sensor Cable
5	S-VIDEO	Use an S-Video Cable (<i>not supplied</i>) to this jack to the S-Video jack on your TV/Monitor
6	VIDEO OUT	Connect a video cable from this jack to the Video Input jack on your TV/Monitor
7	AUDIO OUT	Connect RCA audio cables (left & right) from these jacks to the corresponding Audio Input jacks on your TV/Monitor
8	DIGITAL AUDIO OUT	Use a digital coaxial cable (<i>not provided</i>) to connect the player to a compatible Dolby Digital and/or DTS Decoder
9	ANTENNA INPUT JACK (DVD-2T ONLY)	75Ω Connector for a TV Antenna

IMPORTANT SAFETY INSTRUCTIONS REGARDING THE DC IN JACKS

IMPORTANT NOTICE TO INSTALLERS:

Permanent (hard-wired) DC installations should be performed only by qualified personnel. DC Power for the DVD Players should be wired through the IGNITION or ACCESSORY switch ONLY (*Power should not be available to the DVD Player when the vehicle is not running for an extended period of time*). Connection directly to the battery will result in eventual battery discharge due to the trickle charge necessary for the Remote Control Power On and Auxiliary Input functions.

Warning:

For temporary (non hard-wired) Vehicle Use:

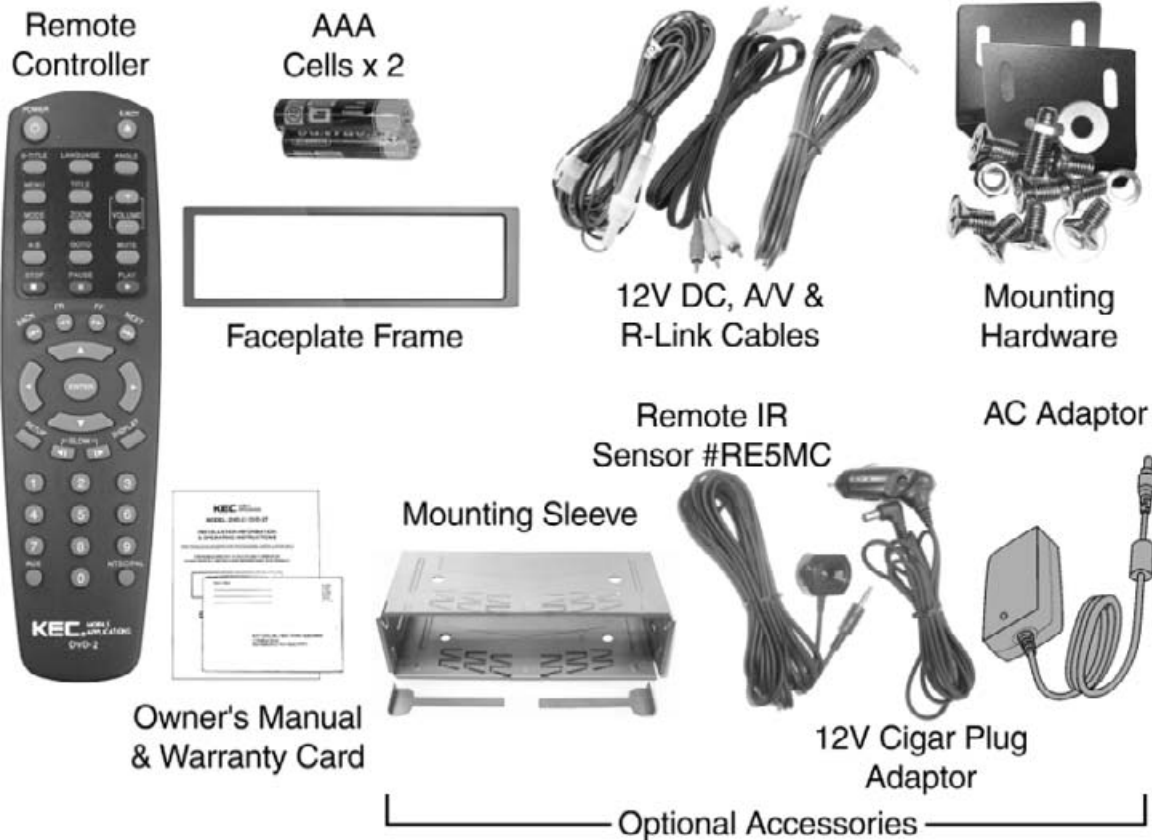
1. Connect the DVD player to 12V power with an approved cigarette plug.
2. Unplug the DVD player when you are not using it to prevent electric discharge.

Warning:

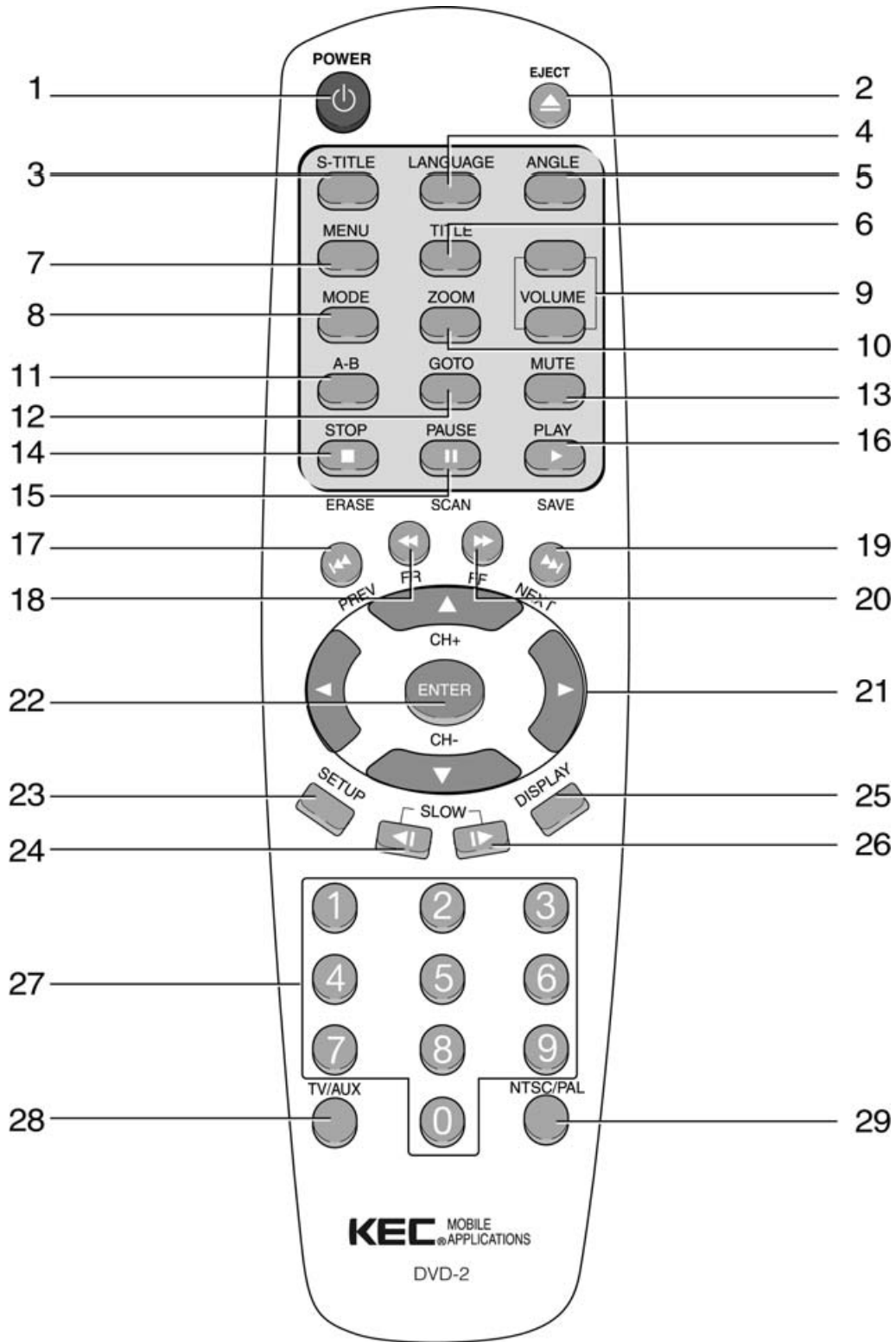
For Home Use:

- Use the correct AC/DC Adaptor (DC 12V, 2A) when using the DVD player with AC power.

ACCESSORIES



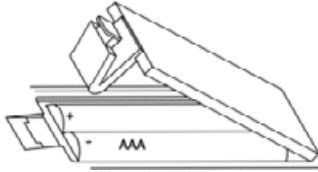
DESCRIPTION – REMOTE CONTROLLER



1. **POWER** (also on the DVD-2 front panel)
Press to turn the DVD player ON/OFF.
POWER OFF automatically activates AUX inputs.
DVD-2T Only: Press repeatedly to cycle through DVD → TV → AUX.
2. **EJECT** (also on the DVD-2 front panel)
Press to eject the disc.
3. **S-TITLE**
Use to choose and cycle through the available subtitles. This function will only work if the disc contains subtitles.
4. **LANGUAGE**
Use to cycle through soundtracks in various languages. This function will only work if the disc has been recorded with multiple language soundtracks.
5. **ANGLE**
Use to access various camera angles. This function will only work if the disc has been recorded with multiple camera angles.
6. **TITLE**
Displays the titles on the disc under play.
7. **MENU**
Displays the menus of the disc being played.
8. **MODE**
Use to choose play or repeat mode.
9. **VOLUME**
Adjusts the audio output levels of the DVD-2 to equalize its output with other program sources in the vehicle (VCP, Video Game, etc).
IMPORTANT NOTE: If the DVD-2 Volume Control is set to "0", no sound will be heard regardless of the settings of any other system volume controls.
10. **ZOOM**
Zooms in on picture.
11. **A – B**
Repeat the selected segment.
12. **GOTO**
Use to go to the track or chapter of the DVD disc you want.
13. **MUTE**
Cuts off the sound.
14. **STOP** (also on the DVD-2 front panel)
Stops disc play.
DVD-2T Only: Erases TV channel from memory in TV mode.
15. **PAUSE**
CD: The audio will be paused.
DVD: Still frame mode. Press repeatedly to advance the picture frame by frame.
DVD-2T Only: Starts automatic channel scan.
16. **PLAY** (also on the DVD-2 front panel)
Press to begin disc play.
DVD-2T Only: Adds the channel to memory.
17. **PREVIOUS** (also on the DVD-2 front panel)
Press once to go to the start of the *current* chapter (DVD) or track (VCD, CD, MP3).
Press again to go to the start of the *previous* chapter/track.
18. **FR**
Press repeatedly to fast reverse through the disc from 2X to 20X faster. *Audio will be muted.*
19. **NEXT** (also on the DVD-2 front panel)
Press to advance to the *next* chapter or track.
20. **FF**
Press repeatedly to fast forward through the disc from 2X to 20X faster. *Audio will be muted.*
21. **ARROW KEYS/ CH+, CH- KEYS**
Use to move through the desired menu.
DVD-2T Only: Use Up/Down to change channels & Left/Right to fine tune channels.
22. **ENTER**
Use to choose the desired menu item.
23. **SETUP**
Press to display the DVD-2's built-in SETUP Menus for Language, Video, Audio and Parental Control.
24. **SLOW BACK**
Press repeatedly to slow reverse through the disc from 1/2X to 1/7X slower. *Audio will be muted.*
25. **DISPLAY**
Press the button to display the disc's elapsed time and total playing time.
Press again to show additional information including Title #, Chapter #, Camera Angle, Audio settings and Subtitle settings.
Press a 3rd time to turn off the display.
DVD-2T Only: Displays the channel being played.
26. **SLOW FORWARD**
Press repeatedly to slow forward through the disc from 1/2X to 1/7X slower. *Audio will be muted.*
27. **NUMERIC BUTTONS**
May be used to make direct selections from various menu screens.
DVD-2T Only: May be used for direct entry of the desired channel.
28. **TV/AUX**
Press to cycle between DVD → AUX playback.
DVD-2T Only: Press to cycle through DVD → TV → AUX.
29. **NTSC/PAL**
Press STOP button and then press NTSC/PAL button to select the desired mode.
IMPORTANT NOTE: The DVD-2 is preset at the factory for NTSC mode. Do not use this button unless you need to set the player for use outside of the USA or other NTSC countries. Please see Page 23 of this manual for further information.

NOTE: Buttons 1~2 & 14~20 are duplicated on the Tri-Mode Remote Controller (Part # RC9799) that is packaged with all KECMOBILE APPLICATIONS LCD Systems. The RC9799 ◀◀TRK/CHAP▶▶ buttons also function as Channel +/- buttons with the DVD-2T. (Please see the Reference Section of this manual for more information).

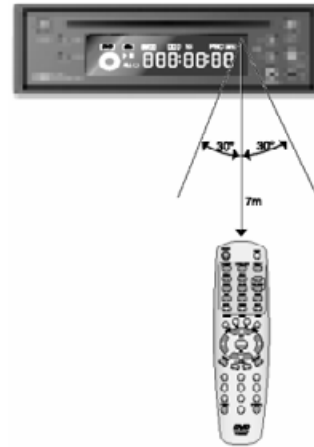
INSTALLING BATTERIES IN THE REMOTE CONTROLLER



1. Press the tab and lift the battery cover open.
2. Insert new batteries, making sure that the correct polarity is observed.
3. Replace the battery cover.

Using the Remote Controller

The effective operating range of the remote controller is about 23 feet (7 meters), and 30° off axis left or right from the remote receptor on the DVD-2 front panel.



Battery Handling Precautions

- Incorrect use of the batteries may cause leakage or corrosion.
- Ensure that polarities are correct when inserting batteries.
- Do not subject the batteries to heat or fire. Do not disassemble or short-circuit the batteries.
- Do not insert exhausted batteries into the remote controller.
- Do not mix different types of batteries together. Do not use old batteries together with new ones.
- Remove batteries to avoid possible corrosion damage if the remote controller will not be used for a long time.
- Replace the batteries with new ones if the remote controller does not operate smoothly or if the operating distance becomes too short.
- If battery leakage occurs, clean the liquid completely from the remote control before inserting new batteries.

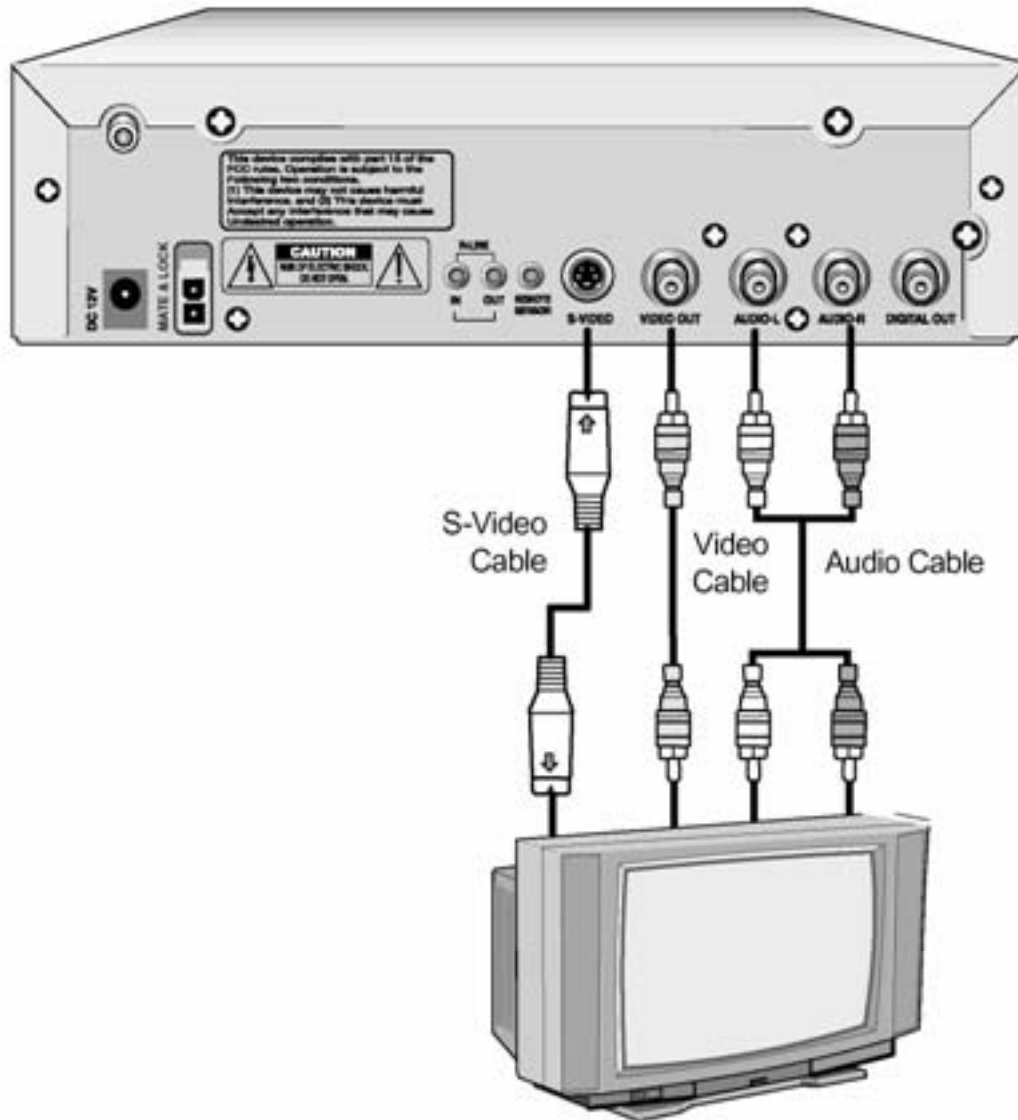
Remote Controller Handling Precautions

- Do not expose the remote controller to shock.
- Do not leave the remote controller in a hot or damp place.
- Do not drop liquids or place heavy objects on the on a remote controller.
- Do not disassemble the remote controller.

Special Note on R-Link Operation

If you are utilizing KEC's R-LINK System, the remote controller may be pointed at the remote sensor of *any* component (LCD, DVD or VCP) connected in the R-LINK chain.

CONNECTIONS – VIDEO CONNECTIONS TO TV OR MONITOR

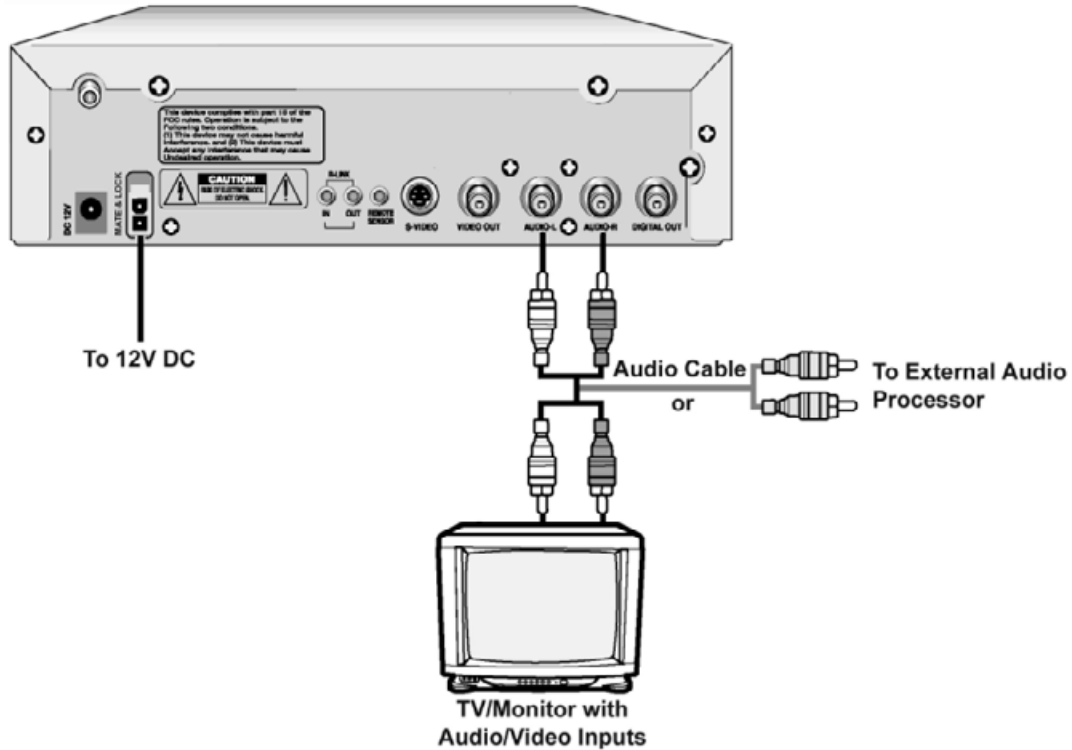


1. Connect the audio cables between the AUDIO OUT (L/R) jacks on the back of your DVD player and the corresponding Audio Input jacks on your TV or Monitor (*if there is only a single Audio Input jack on your TV, connect the audio cable from the left jack of your DVD player*).
2. Connect the video cable between the VIDEO OUT jack on the back of your DVD player and the corresponding Video Input jack on your TV or Monitor (*if your TV or Monitor has an S-Video jack, connect this jack for improved picture quality*).

Caution:

Be sure to turn off power to all units before making any connections.

CONNECTIONS – AUDIO CONNECTIONS



- Connect the audio cables between the Left & Right Audio Output jacks on the back of the DVD-2 player and the corresponding Audio Input jacks on your audio system.
- Alternately, connect the audio cables from the back of the DVD-2 to an external audio processor such as a wireless headphone transmitter or an audio receiver or an FM transmitter.

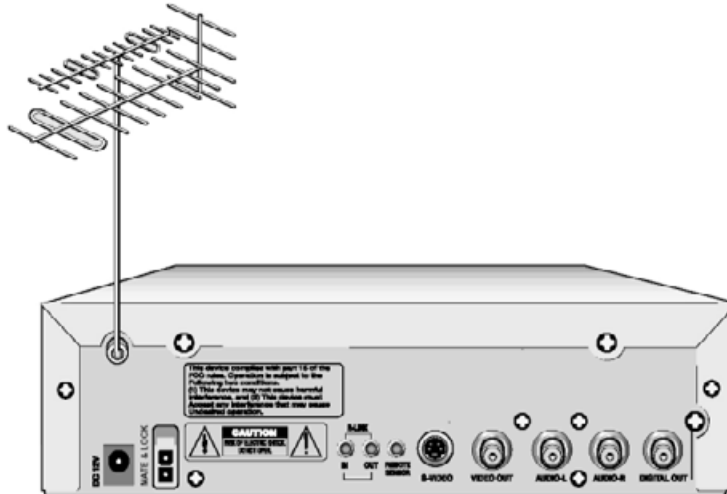
Caution:

Be sure to turn off power and unplug all units before making any connections.

Warning:

Do not set the Digital Audio Output of this DVD player to "PCM" unless you are connecting the Digital Audio jack of this DVD player to an AV decoder that has Dolby Digital decoding function. High volume sound may damage your hearing as well as speakers.

CONNECTIONS – ANTENNA CONNECTION (DVD-2T ONLY)

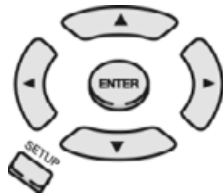


Connect a TV antenna or CATV cable to the 75Ω antenna jack on the back of the DVD-2T. Be sure to unplug all connections to the power source before making any other connections.

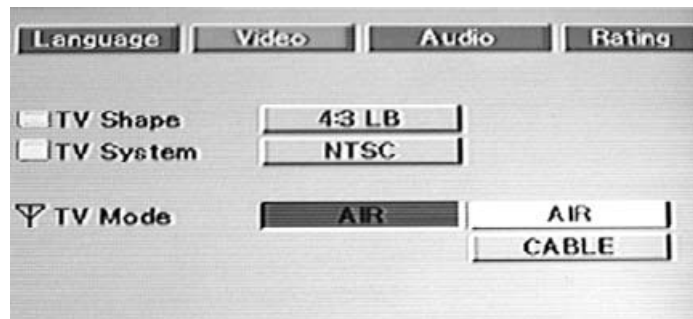
Setting the DVD-2T for Air or Cable Channel Reception:

For regular antenna use, the TV Mode should be set to "AIR" (Channels 2~69). For CATV use, the TV Mode should be set to "CABLE" (Channels 1~125).

Procedure:



1. Press the SETUP button on the DVD-2T Remote Controller to call up the SETUP menu.
2. Press the ► arrow button to select the VIDEO submenu.



3. Press the ENTER button to display the VIDEO submenu.
4. Press the ▼ ARROW button twice to select TV MODE.
5. If the desired mode (AIR or CABLE) is already correct, press the SETUP button to exit the menu screens.
6. If the desired mode (AIR or CABLE) is not selected, press the ENTER button and then press the ▲ / ▼ arrow buttons to highlight the desired mode.
7. Press the ENTER button and then press the SETUP button to exit the menu screens.

IMPORTANT NOTE CONCERNING MOBILE BROADCAST TELEVISION RECEPTION:
 WHEN USED IN A VEHICLE, TELEVISION BROADCAST RECEPTION WILL BE ADVERSELY AFFECTED BY CONDITIONS SUCH AS MOTION, CHANGE OF DIRECTION, ATMOSPHERIC ACTIVITY AND LOCAL SURROUNDINGS.
 IT IS THEREFORE LIKELY THAT BROADCAST PICTURE QUALITY WILL BE MARGINAL WHEN THIS SYSTEM IS USED IN A MOBILE ENVIRONMENT.

BEFORE PLAYING A DISC

1. To play a disc, turn on the TV or monitor and select the video input source to which the DVD-2 is connected (e.g. VIDEO 1, 2 or 3.)
2. If the DVD-2 is connected to a separate sound system, turn on the audio system and select the audio input to which the DVD-2 is connected.
3. If desired, go to the SETUP menu and set the playback picture size based on the aspect ratio of the connected TV or monitor. The available settings are 4:3 Pan & Scan, 4:3 Letter Box and 16:9.

POWER



Press the DVD-2's POWER button. If power is off, inserting a disc will automatically turn power on.



"Loading" will be displayed on the screen. If no disc is in the player, "Loading" will be followed by "No Disc".

EJECT



Press the EJECT button if you wish to eject a disc.

Notes:

- Discs should always be inserted with the label facing up.
- Whenever \emptyset is displayed on screen after any button press, it means that the command associated with that button is either not available with the disc that is being played, or that the command is temporarily unavailable because the DVD-2 is busy carrying out another operation.
- The player will automatically power off if "No Disc" is displayed on the screen for 8 minutes.

Cautions:

- Avoid movement of or shock to the DVD player when a disc is playing.
- A disc may be damaged if it is ejected by force.
- Never insert any object other than a disc in the slot.
- Certain functions may not operate or may operate differently depending on the disc. Refer to the notes accompanying the disc.

PLAYING A DVD DISC (DVD/VCD/CD)

Insert the DVD disc

- Make sure that the disc's label is facing up.
- Sliding a disc into the slot automatically begins play.



To stop, press the STOP button



To temporarily interrupt playback, press the PAUSE button.
Pressing the PAUSE button repeatedly will advance the movie frame by frame



To resume play again, press the PLAY button

Last Position Memory:

The DVD-2 memorizes the last disc location when the STOP button is pressed.

Pressing the PLAY button will resume playback of the movie from the point where you left off.

Last Position Memory will function *even* if the POWER is turned off. When power is restored, the DVD-2 will locate the previous position and begin playback.

Please note that ejecting the disc clears the memory.

Cautions:

- "No Disc" will be displayed on the screen if a disc is inserted upside down, or if a damaged or otherwise unplayable disc is inserted.
- "REGION ERROR" is displayed on the screen if a disc from a region different from the player is inserted.

PLAYING AN MP3 OR WMA AUDIO FILE

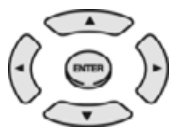
Insert the MP3 or WMA disc.

- Make sure that the disc's label is facing up (*recorded side facing down*).
- Insert the disc into the slot.
As the disc is being scanned, "Loading" will be displayed. In approximately 25 seconds (*longer with more complex discs*), it will be recognized as an MP3 or WMA disc, a directory will be displayed on screen and the 1st song will automatically be played



- Press the STOP button to stop play.
- Press the PAUSE button to temporarily stop play. To resume play, press the PLAY button again.

To Play a Desired Track



1. Use the ARROW buttons to highlight the song or track that you want, then press the ENTER button. The selected song will be played.
2. You can also use the NUMERIC (0-9) buttons to directly select a song by entering its number.



- 12 tracks can be displayed on the screen. To see additional tracks, use the ARROW buttons.
- Press the PREV/NEXT buttons to play the previous or next track.
- Navigate to selections in other folders by using the ARROW and ENTER buttons.

Notes Concerning MP3 Files

- MP3 files must have been recorded on the disc in ISO 9660 or JOLIET format.
- The following characters will not be recognized in MP3 filenames: (\ / : * ! " < > |)
- Some MP3 discs may not be recognized depending on the recording conditions.

DVD-2 SETUP MENU – GENERAL INFORMATION

The DVD-2 SETUP menus allow you to set the *default* (or *initial*) conditions for the DVD Player. Many of these initial settings can be overridden for each disc that you view via the selection menus provided on each individual DVD disc.

General Procedures

Press the SETUP button with the unit in Stop mode. The initial SETUP menu appears/



Use the ARROW buttons as necessary to select the desired item.

1) LANGUAGE

Highlight LANGUAGE and then press ENTER. The LANGUAGE sub-menu will be displayed:

- OSD Menu:** Set the on-screen display (OSD) menu language.
- Subtitle:** Set the preferred disc subtitle language.
- Audio:** Set the preferred audio soundtrack language.
- DVD Menu:** Set the preferred DVD Disc Menu language.
- Default:** Select "On" and press ENTER to reset the DVD-2 to the factory's default settings.

2) VIDEO

Highlight VIDEO and then press ENTER. The VIDEO sub-menu will be displayed:

- TV Shape:** Select the desired TV Aspect Ratio (4:3 Pan & Scan, 4:3 Letter Box or 16:9).
- TV System:** NTSC, PAL or Auto.
- TV Mode:** (DVD-2T *Only*) Select between Air and Cable reception.

3) AUDIO

Highlight AUDIO and then press ENTER. The AUDIO sub-menu will be displayed:

- Dolby Digital:** Select Raw, Off or PCM.
- DTS:** Select Raw or Off.
- MP3/WMA:** Select PCM or Off.
- CD/VCD:** Select Raw, Off or PCM.

4) RATING (*Parental Control*)

Highlight RATING and then press ENTER. The RATING sub-menu will be displayed.

- Password:** Set the password.
- Rating:** Set the movie rating.

Notes:

- Use the ARROW buttons to move between menu items.
- Use the ENTER button to select an item, to cycle through the available settings for an item or to display a sub-menu of choices which will appear as a list to the right of the main item.
- To exit the SETUP screens, press the SETUP button.
- Once set, the DVD-2 retains all settings in *non-volatile* memory until you change them – even if power is disconnected for many years.
- If you are unsure of the effect of a particular setting, we recommend that you just leave it at the factory default. To restore all settings to their *factory defaults*, refer to the instructions labeled "Restoring Factory Defaults" at the end of the section on the Language Menu.

DVD-2 SETUP MENU – LANGUAGE

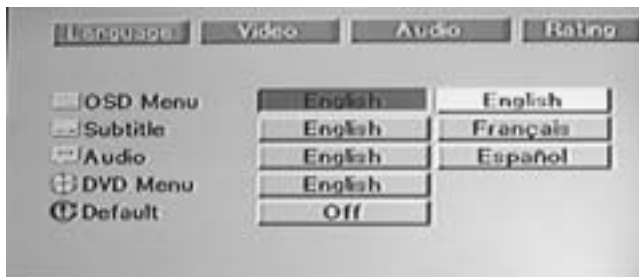
The Language Menu lets you select the audio soundtrack language as well as the language shown in subtitles, on-screen displays (OSD) and DVD disc menus.

You may also use this menu to reset all of the DVD-2 Setup Menus to the manufacturer's initial (*default*) settings.

When you play a DVD, the DVD-2 will automatically display the pre-selected language you have chosen (*unless it is not available on the disc you are playing*).

Procedure:

1. Press the SETUP button.
Since LANGUAGE is the first item in the Setup Menu, it will already be highlighted.
2. Press the ENTER button.
The LANGUAGE sub-menu will be displayed.



3. Use the ARROW buttons to move to the desired item.
4. Use the ENTER button to display the available languages.
5. Use the ARROW buttons to highlight the desired language, then press the ENTER button to select it.

Follow the procedure outlined above to set each of these available items:

- OSD Menu:** Set the on-screen display (OSD) menu language (English, French or Spanish).
Subtitle: Set the preferred disc subtitle language (English, French, Spanish, Auto or Off).
Audio: Set the preferred audio soundtrack language (English, French or Spanish).
DVD Menu: Setting the preferred DVD Disc Menu language (English, French or Spanish).
Default: Restores the factory's initial settings (*refer to the following section*).

IMPORTANT NOTE:

1. Regardless of the selections made in the setup menu, you can always change the subtitle language while playing any DVD disc by pressing the S-TITLE button on the DVD-2 remote controller. Press the button repeatedly to cycle through all available subtitle languages recorded on the disc.
2. Regardless of the selections made in the setup menu, you can always change the audio soundtrack language while playing any DVD disc by pressing the LANGUAGE button on the DVD-2 remote controller. Press it repeatedly to cycle through all available soundtrack languages recorded on the disc.

RESTORING FACTORY DEFAULTS

The last item in the LANGUAGE menu is "Default". It is *normally* set to OFF.

To restore ALL DVD-2 Menu settings to their original factory defaults:

1. Use the ARROW buttons to highlight the Default sub-menu.
2. Press the ENTER button and then press the ▼ ARROW button to highlight "On".
3. Press the ENTER button.
4. All factory defaults will be restored and the Setup menu will be cleared from the screen.

Note:

The Setup Menu selections set the *default* (or *initial*) operating conditions for the DVD Player. Most of these settings can be overridden for each DVD disc you view via the selection menus provided on each individual DVD disc.

DVD-2 SETUP MENU – VIDEO

SELECTING ASPECT RATIO & TV SYSTEM

The Video Menu - Selecting Aspect Ratio & TV System

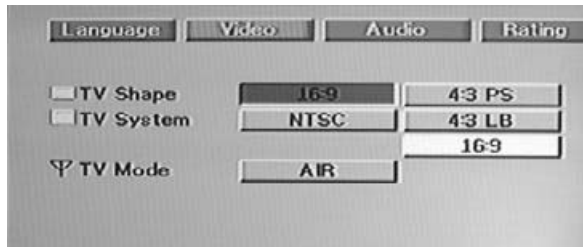
The Video Menu lets you select the appropriate screen type for your television or monitor, and the TV System standard for the country in which you will be using the player.

TV Shape (Aspect Ratio)

Select the appropriate screen type for your television or monitor. If you have a *conventional* screen, choose either 4:3 PS (*Pan & Scan*) or 4:3 LB (*Letterbox*). If you have a wide-screen television or monitor, select 16:9. See the chart below for a more detailed explanation.

Procedure:

1. Press the SETUP button.
2. Press the ► ARROW button to highlight “Video”
3. Press the ENTER button to display the VIDEO sub-menu.
4. Press the ENTER button again to display the TV Shape options.
5. Highlight your choice using the ARROW buttons and press ENTER to select it.



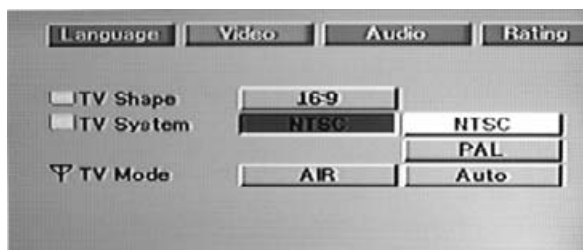
TV Shape (Aspect Ratio)	Description
4:3 Pan Scan	The entire screen will be filled with a picture. Since a widescreen picture cannot all fit on a conventional 4:3 screen without <i>letterboxing</i> , some portion of the left or right side (or a combination of both sides) of the original widescreen movie will be cut off.
4:3 Letterbox	Widescreen movies will be played back as they were filmed with the entire picture displayed. However, there will be black bands at the top and bottom of the screen. Note that non-letterboxed movies will still fill the entire screen.
<i>Note: Choosing Pan & Scan or Letterbox is a matter of personal taste. You may prefer a picture that fills the entire screen, even though some of the original picture is missing. Or you may prefer to see a widescreen movie exactly as the director intended, even though the black bands result in a smaller overall picture.</i>	
16:9	Select this ONLY if the DVD-1 is connected to a widescreen television or monitor.

TV SYSTEM – IMPORTANT – PLEASE READ CAREFULLY

This unit is preset to NTSC at the factory.

Do not change this setting unless you will be using the DVD-2 in a country that uses the PAL System.

An incorrect setting will result in a very poor black & white picture or no picture at all.



Note:

TV Mode, the third item shown on the Video sub-menu, will only appear on the DVD-2T. Please refer to Page 17 in the CONNECTIONS section of this manual for further information.

DVD-2 SETUP MENU – AUDIO – DIGITAL AUDIO OUTPUT SETTINGS

Important Notes:

It is not necessary to make any changes to the factory default settings unless you have an audio system that is connected to the Digital Audio Output of the DVD-2.

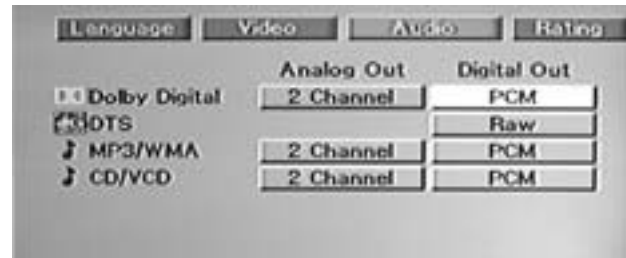
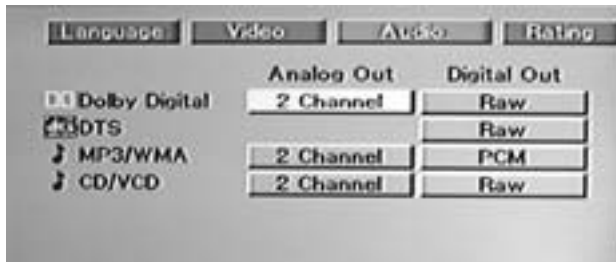
If you are unsure of the effect that a particular setting will have, we recommend that you just leave it at the factory default.

To restore all settings to their *factory defaults*, refer to the instructions on Page 22 labeled "Restoring Factory Defaults" at the end of the section on the Language Menu.

Most DVD discs have a variety of audio output options. Set the DVD-2's Digital Audio Output according to the type of audio system you use. Please refer to the instruction manual(s) accompanying your audio equipment for detailed instructions on the proper settings of the DVD-2's Digital Output.

Procedure:

1. Press SETUP to call up the Setup menu.
2. Press the ► ARROW button twice to highlight AUDIO.
3. Press the ENTER button to call up the Audio sub-menu.
4. Press the ► ARROW button to move to the Digital Out settings (*the Analog Out settings are set to "2 Channel" and cannot be changed*).



5. Use the ARROW buttons to move to the desired item(s).
6. Press the ENTER button repeatedly to cycle through the available choices for each item.
7. When the desired choice is displayed, use the ARROW buttons to move to the next item you wish to change.

Dolby D: Select Raw, Off or PCM.

DTS: Select Raw or Off.

MP3/WMA: Select PCM or Off.

CD/VCD: Select Raw, Off or PCM.

Note: The Volume + / – buttons on the DVD-2 remote control do not affect the level of the Digital Audio Output.

DVD-2 SETUP MENU – PARENTAL CONTROL PASSWORD & RATING

Setting The Parental Control Password & Rating Level

Parents may set a Password to prevent playback of any DVD discs whose "Rating" they deem unsuitable for viewing.

Note: In addition to the Parental Control Rating Block provided by this player, some DVD discs also provide a menu choice that allows parents to restrict access to specific scenes which they may believe are unsuitable for viewing by children.

The DVD-2 is equipped with a password feature. It is designed to prevent children from changing the rating level set by their parents. Follow the 2 steps below to set the Rating Level & Password:

Step 1: Selecting Rating Level (DVD Only)

Press SETUP to call up the Setup menu. Press the ► ARROW button to highlight RATING and press ENTER to call up the Rating sub-menu. Press the ▼ ARROW button to highlight RATING.

Press the ENTER button repeatedly to cycle through and select the highest rating you do not wish to block from the 8 available choices:

1. Kid Safe
2. G
3. PG
4. PG 13
5. PG R
6. R
7. NC 17
8. Adult



When the desired Rating Level is displayed, press the ▲ ARROW to set the PASSWORD: "----" will be highlighted.

Step 2: Setting the password

You must enter a password in order to turn on the parental control feature.

Choose any 4-digit number using the numeric keypad (0-9) on the remote control.



As you enter each digit, an asterisk will appear. When you have entered all 4 digits, press ENTER and the password will be set.

The "Lock" logo will change from opened to closed indicating that the parental control lock is turned on.

The playback of any DVD with a rating **higher** than your selection will now be blocked as indicated by a PASSWORD prompt on the screen. The movie will not play unless the password is entered or blocking is turned off at the setup screen.


To cancel the password, go to the RATING setup screen, enter the PASSWORD and press the ENTER button. The lock logo will change to unlocked and blocking will be turned off.

ADVANCED OPERATION & SPECIAL FEATURES

DVD TITLE MENUS

Some DVD discs may contain 2 more titles. If the disc has a title menu recorded on it, the TITLE button can be used to select the movie title.

The exact details of operation will depend on how a particular disc was manufactured. The TITLE button will have no effect if there are no titles on the disc.

1. Press the TITLE button. A list of the titles on the disc will be displayed.
 (Press TITLE again to resume play from the point where the TITLE button was first pressed. The Resume Play feature may not function correctly depending on how the disc's titles were made).



2. Use the ARROW or numeric keypad buttons to select the desired title and press ENTER or PLAY.

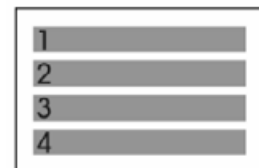
DVD DISC MENUS

Many DVD discs have unique menu structures called DVD Menus. These menus may take many forms. For example, DVD's programmed with complex contents provide guide menus and those recorded with soundtracks in several different languages provide menus for audio and subtitle language. Although the contents and operation of DVD Menus will vary greatly from disc to disc, general instructions on how to use them follow.

Please note that the exact details of operation will depend on how a particular disc was manufactured. Also note that the MENU button will have no effect if there are no menus on the disc.

To display the menu recorded on DVD or VCD 2.0 discs:

1. Press the MENU button
 - The menu recorded on the disc will appear on screen.
 - Menu appearance varies widely from disc to disc.
 - CD Audio discs and VCD1.1 discs do not have disc menus

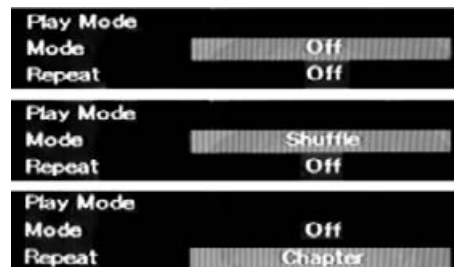


2. Press the ARROW buttons to move to the item that you want, and then press the ENTER button to select it.

The MODE Button – Shuffle & Repeat Play

The DVD-2 can randomly or selectively repeat Chapters or Titles on the disc.

1. Press the MODE button during disc playback to display the Play Mode menu. The 1st item, "Mode" will be highlighted. Press the ENTER button repeatedly to cycle between "Off" and "Shuffle" (random) play.
2. Use the ARROW buttons to highlight the 2nd item, "Repeat". Press the ENTER button repeatedly to cycle between "Off", "Chapter" and "Title".
3. After making the desired selection(s), press the MODE button again to remove the Mode menu from the screen.

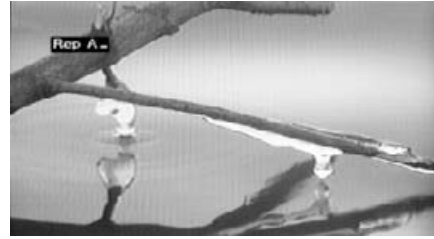


Note that the Repeat choices for VCD's & Audio CD's are Off, Repeat Single Track and Repeat All Tracks.

ADVANCED OPERATION & SPECIAL FEATURES

The A–B Button – Repeat Play Of A Selection Between 2 Specific Points

1. Press the A–B button during playback at the point where you wish repeat play to begin.
"Rep A_" will appear on the screen.
2. Press the A–B button again during playback at the point where you wish repeat play to end.
"Rep A_B" will appear on the screen. Repeat play of the selection between points A and B will begin.
3. To return to normal play, press the A–B button again.
"Off" will appear on the screen and normal playback will resume.



NOTES

- Repeat Play only works with discs for which the elapsed time appears on the DVD-2 display window.
- Repeat Play may not work correctly with some specially programmed discs.
- Some subtitles recorded close to the selected A & B points may fail to appear on the screen.

The ZOOM Button – Magnifying The Screen

1. Press the ZOOM button when the disc is in Play or Pause mode.
A magnifying glass icon and the screen ratio will be displayed on the screen.
2. Press the ZOOM button repeatedly to enlarge the screen in the sequence: 4/3X – 3/2X – 2X – Off.
3. The ARROW buttons may be used to move to different sections of the magnified screen.




NOTES

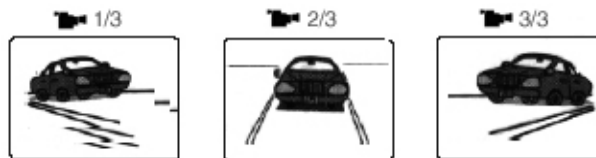
- Some discs may not respond to the Zoom feature.
- Zoom will not operate when DVD disc menus are displayed.

The ANGLE Button – Viewing Scenes From Differing Angles


Some DVD discs contain scenes which have been filmed simultaneously from a number of different angles. The angles that can be viewed are dependent on the particular disc used.

Even if a DVD has been recorded with this feature, it is often only available for selected scenes.

1. Press the ANGLE button during playback. A camera icon will be displayed on the screen along with a fraction indicating the current angle being viewed and the total number of available angles.
For example,  2/3 indicates that you are viewing the 2nd of 3 available angle views.
2. Press the ANGLE button repeatedly until the desired camera angle is displayed.



NOTES

- The angle indicator  will appear on the DVD-2's front panel display whenever scenes recorded at different angles are playing to indicate that angle switching is available.
- The Angle button may also be used to rotate a JPEG file on the screen. Each time the button is pressed, the JPEG picture will rotate 90 degrees.

PBC – PLAYBACK CONTROL

If "PLAYBACK CONTROL" is written on a VCD or Audio CD case, you will be able to select and view special scenes and related information. "PBC" will appear on the DVD-2's front panel display.

ADVANCED OPERATION & SPECIAL FEATURES

The GOTO Button – Locating A Specific Point On The Disc

The DVD-2 can be directed to locate the desired screen or selection by elapsed time, title, chapter or track.



To locate a specific point by elapsed time:

1. Press the GOTO button. The SEARCH screen will be displayed.
2. Press the ARROW buttons to move to the time setting entry line.
3. Enter the desired time using the numeric keypad on the DVD-1 remote controller using the format HMMSS. For example, to advance to 1 hour 7 minutes and 12 seconds, press 1, 0, 7, 1, 2.
4. Press the ENTER button.

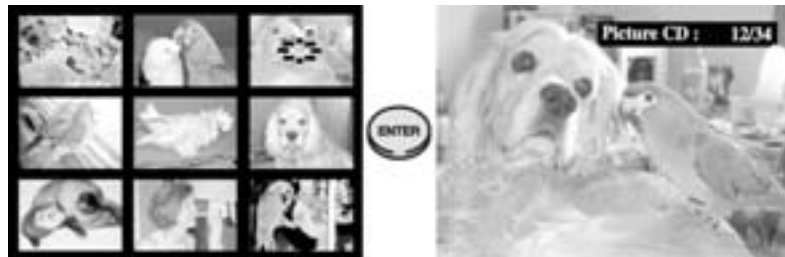
To locate a specific point by title or chapter:

1. Press the GOTO button to display the SEARCH screen.
2. Press the ARROW buttons to move to the Title/Chapter entry line.
3. Enter the desired title and chapter using the numeric keypad on the DVD-1 remote controller. If you wish to advance to a chapter in the current title, it is only necessary to enter the chapter number.
4. Press the ENTER button.

Viewing JPEG Files

1. Insert the disc containing JPEG files. Make sure that the disc's label is facing up.
2. The DVD-2 front panel will flash "LOAD". After some time (*depending on the number and size of JPEG files on the disc*), the number of JPEG files found will be displayed. The Slide show will begin automatically at the first picture. Each picture will be displayed for 10 seconds.
3. Press the PAUSE button to stop the slideshow. Press the PLAY button to resume.

- Press the MENU button to display *thumbnail* pictures – 9 per screen.
- Use the ARROW and PREV/NEXT buttons to navigate these screens.
- Press the ENTER button to display a highlighted picture.



- Press the ANGLE button to rotate a displayed picture in 90 degree steps.
- Press the ZOOM button to enlarge or reduce a displayed picture.
- A JPEG file may be selected directly using the numeric keypad and ENTER button.
- Press the STOP button to display a directory listing of the JPEG files on the disc. The JPEG directory is navigated in the same manner as the MP3/WMA directory (*see page 20*).

NOTES

- A slide show can consist of up to 999 pictures.
- JPG/JPEG files are the only picture files that will be recognized.
- JPEG filenames may not use the following symbols: (\ / : * ! " < > |)
- Some JPEG files and/or discs may not be recognized by the DVD-2 depending on the recording conditions.

If a disc has both MP3/WMA files and JPEG file, the DVD-2 will play the audio files first.

REFERENCE


SPECIFICATIONS

Model : DVD-2 & DVD-2T		
General	Power Requirements	DC 12V 2A
	Power Consumption	15W
Disc	Weight	2.93 lb (1.33Kg)
	Dimensions (WxDxH)	6.89" × 7" × 1.97" (175 × 178 × 50 mm)
	Operating Temperature / Humidity	30° F ~ 122° F(0° C ~ 50° C) / 30% ~ 80%
	Video Output Levels	Composite Video: 1.0 V p-p S-Video Luminance Signal: 1.0Vp-p (75Ω)
Disc	Audio Output Levels	2 Channels (Left/Right)
	S/N Ratio / Dynamic Range	Analog: 2.0 Vrms / Digital: 0.5V p-p 100dB / 90dB
	Total Harmonic Distortion (THD)	0.05%

MENU STRUCTURE

Language ↓	Video ↓	Audio ↓	Rating ↓
OSD Menu → English Francais Espanol	TV Shape → 4:3 PS 4:3 LB 16:9	Dolby Digital → Raw Off PCM	Password → - - - -
Subtitle → English Francais Espanol Auto Off	TV System → NTSC PAL Auto	DTS → Raw Off	Rating → 1. Kid Safe 2. G 3. PG 4. PG_13 5. PG_R 6. R 7. NC_17 8. Adult
Audio → English Francais Espanol	TV Mode → Air (DVD-2T Only) Cable	MP3/WMA → PCM Off	
DVD Menu → English Francais Espanol		CD/VCD → Raw Off PCM	
Default → On Off			

REFERENCE TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE / SOLUTION
No picture on screen. Poor or unstable picture on screen. Black & White picture on screen.	Is TV/Monitor powered on? Is TV/Monitor input set correctly (AV1 or AV2 or AV3)? Is power being supplied to both DVD Player and monitor? Is DVD Player in "PLAY" mode? Is disc clean and undamaged? Note that poorly manufactured disc may not be fully readable by the player. Is DVD Player or TV/Monitor set to PAL with NTSC disc? Is DVD Player or TV/Monitor set to NTSC with PAL disc?
No sound or poor quality sound.	Is audio output level set to zero (<i>refer to Item #9 on DVD-2 Remote Controller diagram</i>)? Are audio cables correctly and securely connected? If DVD Player is connected to Dolby Digital Amplifier is it powered on and are the Digital Audio Output settings correctly? Is the unit in slow, still or scanning mode? (<i>there is no audio output in these modes</i>).
Remote controller does not work.	Are the batteries in the remote controller fresh? Was an R-Link cable incorrectly plugged into the Remote Sensor In Jack instead of into the R-Link In or Out Jacks on the rear panel of the DVD-2? (<i>This improper connection interrupts all remote control capability</i>). Is the remote controller pointed at the remote sensor, or is it too far from the remote sensor or is there an obstacle in the path of the remote controller and the remote sensor?
No video and/or audio, or the disc is ejected after 2~5 seconds.	Has the environment around the DVD player or disc changed from cold to warm? This is a common occurrence in mobile or outdoor installations – especially in the morning. DEW (<i>condensation</i>) may have formed on the disc or in the player. The built-in DEW protection function will activate and eject the disc. Leave power to the DVD player ON for 1~2 hours so that heat has a chance to evaporate the moisture. After moisture disappears, the disc can be played.
The DVD player does not work.	Is a disc inserted in the player? Is a disc inserted upside down? (<i>Disc label should be facing up</i>). Is the voltage supply adequate? Does the disc Region Code match the DVD player Region Code?
DVD player does not work as expected based on initial settings.	Some initial settings may operate differently depending on the way a DVD disc was recorded.
Screen aspect ratio does not appear as selected.	Various DVD discs are recorded and manufactured with differing aspect ratios (<i>e.g. 16:9 or 2.35:1 Wide Screen, 4:3 Movie, 4:3 Pan & Scan, etc.</i>) Check the case of the DVD disc and select the appropriate screen shape. Your TV or Monitor may also have screen and/or zoom adjustment functions.
The Dolby Digital 5.1 Channel sound does not operate.	You must have a Dolby Digital 5.1 Processor/Amplifier to enjoy Dolby Digital 5.1 recorded discs.
Audio and/or subtitle language has been chosen in setup but doesn't work.	A DVD disc must have been recorded in the chosen language(s) in order for such language(s) to operate.
Camera Angles does not operate in disc play.	You can change camera angles on screen only when different camera angles have been recorded on all or part of the disc. A  symbol will be displayed on the DVD-2 Display Screen.

REFERENCE

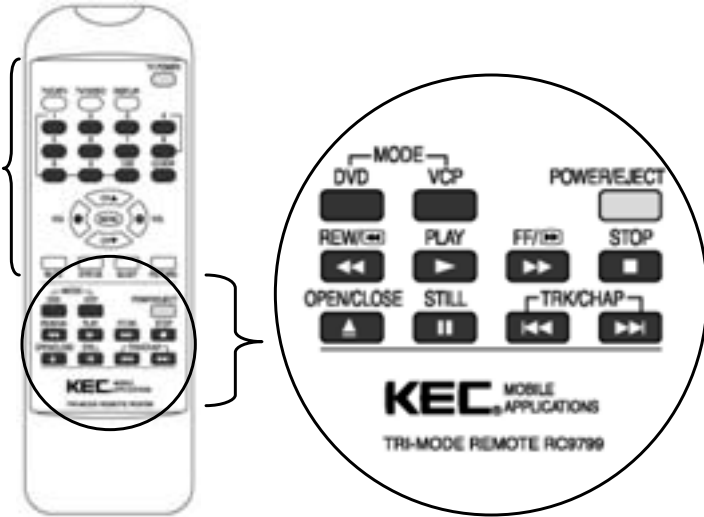
KEC MOBILE APPLICATIONS TRI-MODE REMOTE CONTROLLER # RC9799

The Tri-Mode Remote Controller is packaged with most KEC LCD Systems. In addition to full remote control of the LCD System, it also provides basic remote control commands for our DVD and Videocassette Players.

To control the DVD-2 with the RC9799, press the DVD MODE button.
To change to VCP control, press the VCP MODE button.

Notes:

- The LCD System control buttons are always available. They are not affected by the DVD/VCP MODE buttons.
- This unit is not a *universal* remote controller. It is only designed to transmit control codes to KEC Mobile Applications products.



A NOTE TO INSTALLERS CONCERNING THE KEC R-LINK SYSTEM

Most KEC Mobile Applications video products (TV, LCD, VCP & DVD) employ our R-LINK System. This allows all of our components to be remote controlled even if some of the components are hidden from view.

If you are installing the DVD-2 along with one of our TV's or monitors *and* one of our VCP's:

1. Connect an R-Link cable from the KEC TV/Monitor to the DVD-2's R-Link *Input*
2. Connect an R-Link cable from the DVD-2's R-Link *Output* to the R-Link jack on the rear panel of the KEC VCP.

All KEC components may now be remote controlled by pointing *any* of the KEC remote controllers at the remote sensor on *any* of the KEC components.

Please note that since pairs of KEC Mobile Applications Headrest Monitors are designed to be operated *independently* of each other, they are *not* equipped with R-Links. Please refer to the installation information accompanying our Headrest Monitor Systems for information on the use of R-Link in conjunction with those systems.



NOTICE:

For additional information or for the location of an authorized service center, please contact KEC Mobile Applications / KTV USA, Inc. at (800) 524-1216 or (973) 470-9191