

# REVOLUTION SERIES

## Rear Seat Entertainment System

Owners Manual





# REVOLUTIONSERIES

## Rear Seat Entertainment System

Owner's Manual



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## Welcome

Thank you for purchasing this REVOLUTION headrest video monitor with built-in DVD player. Before operating this system, read this manual thoroughly and retain it for future reference.

### Important Notice

It is unlawful in most jurisdictions for a person to drive a motor vehicle which is equipped with a television viewer or screen that is located in the motor vehicle at any point forward of the back of the driver's seat, or that is visible, directly or indirectly, to the driver while operating the vehicle. In the interest of safety, the unit should never be installed where it will be visible, directly or indirectly, by the operator of the motor vehicle. If your vehicle is equipped with a wireless rear seat audio system or any other wireless IR device, power system off in order to operate the DVD headrest system. If system is powered on, the two systems may interfere with each other canceling out or creating undesirable audio through the wireless headphones.

### Safety Precaution

For safety reasons, when changing video disc it is recommended that the vehicle not be in motion, and that you do not allow children to unfasten safety belts to change disc or make any adjustments to the system. System adjustments can be accomplished using the remote control unit, while safety belts remain fastened. Enjoy your entertainment system but remember that safety of all passengers remains the number one priority.

### Product Features

- 7-inch Color TFT-LCD Panel (480x234) with 16:9 aspect
- Built-in Top-Loading Slot load DVD Player
- Infrared Transmitters for IR Wireless Headphones
- Audio/Video Source Input- 3 RCA Jacks
- USB 2.0 (optional)
- 1/8-inch Stereo Headphone Jack
- Forward Remote Sensor on the Front Panel

- Full Function Remote Control
- 5 Control Buttons on the Front Panel- POWER, SOURCE, STOP, PLAY, EJECT
- OSD (On Screen Display) Control
- 12V DC Power Input
- FM Transmitter (may be optional)

### Caution:

- Do not touch the inner pins of the jacks on the front panel. Electrostatic discharge may cause permanent damage to the device.
- Be sure to run the vehicle engine while using the device. Using this device without running the engine can result in battery drainage. To avoid the risk of battery drainage, please remember to turn off the device when the vehicle is not in use for long periods of time.

## Wireless Headphones

This unit includes a built-in dual channel infrared transmitter for use with a wireless headphone. The volume can then be adjusted with the controls on each headset. The wireless headphone must be used within a line of sight from the transmitter as infrared transmission, like visible light, travels only in a straight line.

## Wired Headphones

There is a 1/8-inch headphone jack on the device that can be used with any standard stereo headphone. Remove and save the protective plastic cover to access the jacks. Remember to replace the cover when the jacks are not in use.

## AV Input

An external AV device such as a DVD player, video game device, or other audio/video device may be connected to the unit by using the "AV INPUT" port consisting of 3 RCA jacks (Yellow: Video, Red: Audio-R, White: Audio-L).

To display and listen to the video/audio signal of this external source, connect the video source RCA cables to the AV inputs on the monitor. The video source will override any other video source for that monitor.

## Wireless FM Transmitter

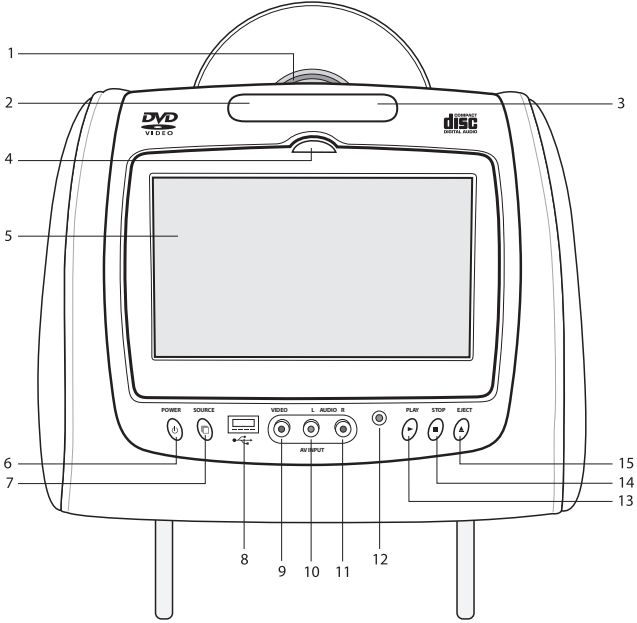
Your device may be equipped with an external FM transmitter, which allows you to listen to the audio signal by tuning your vehicle's FM radio to the selected frequency and turning SOUND AROUND on with the remote. Whenever the SOUND AROUND is on, broadcast radio reception may be poor. Performance will vary based on geographic location. Turning SOUND AROUND off will allow normal radio reception.

### How to use the FM Transmitter

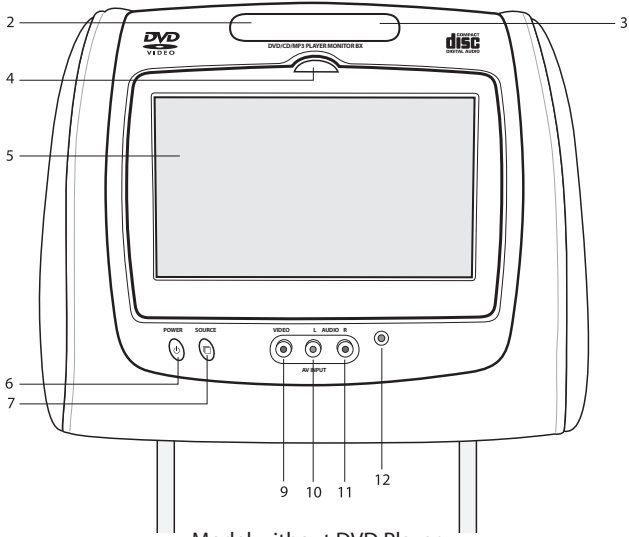
Power up your system and place a disc in monitor "A". While pointing your remote at the monitor press the "DVD A" button directly

under the red "POWER" button on your remote control. Next press the "Sound Around ON/OFF" button to turn FM transmission on or off as desired. Three buttons to right is the "Sound Around SELECT" button which will cycle through 6 possible stations (88.3, 88.7, 89.1, 89.5, 89.9, and 90.3MHz) for broadcasting audio to your radio. Once you've selected a frequency, you must then tune your radio to the corresponding frequency. Try each station frequency until you achieve a clear audio signal.

# Control Description of the Front Panel



Model with DVD Player



Model without DVD Player



1. **DVD Compartment Slot**  
(models with DVD Player)
2. **Infrared Transmitters**  
These are used to transmit audio to the wireless headphones.
3. **IR Sensor - Forward Sensor Eye**  
Allow the remote control to navigate the OSD (On Screen Display) on the device.
4. **Level Lock & Release Latch**  
Allows the user to adjust the viewing angle of the LCD panel or lock the panel into the secure position.
5. **TFT LCD Panel**  
7-inch TFT LCD Panel
6. **POWER Button**  
Press this button to turn the system on or off.
7. **SOURCE Button**  
Press this button to select between Monitor A, Monitor B, AUX/TV (if available), and AUX 2 (if available).
8. **USB Port (Optional)**  
You can play music and images stored on a USB Device such as a USB memory stick or memory card reader.
9. **Video Input Jack (Yellow)**  
Connect using a cable (RCA connector).
10. **Audio Input Jack (White)**  
Connect using a cable (RCA connector).
11. **Audio Input Jack (Red)**  
Connect using a cable (RCA connector).
12. **1/8-inch Headphone Jack**  
Allow plug-in of wired headphones with 1/8-inch stereo connector plug for monitoring the audio from the program.
13. **PLAY Button**  
(models with DVD Player)  
Press this button to play the DVD/CD.
14. **STOP Button**  
(models with DVD Player)  
Press this button to stop playing the DVD/CD.
15. **EJECT Button**  
(models with DVD Player)  
Press this button to eject the disc from the DVD compartment.

**Warnings**

- Do not use any solvents or cleaning materials when cleaning the video device.
- Do not use any abrasive cleaners, that may scratch the screen. Use only a lightly dampened lint free cloth to wipe the screen if it is dirty.
- Lock the LCD screen in the fully closed position when not in use.
- Do not put pressure on the screen.
- Caution children to avoid touching or scratching the screen, as it may become dirty or damaged.

## Functional Verification

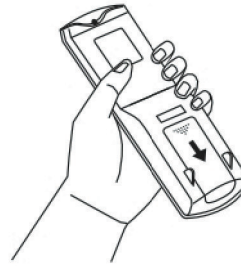
<b>Function Checks:</b>	<b>Look for:</b>
Turn vehicle ignition to ON, depress power button on each headrest monitor.	Monitor should power on and start up screen should appear on screen.
Insert disc into DVD player, press ENTER button on the remote control or front panel.	Disc should begin playing.
Listen with wireless headphones (be sure to set to channel "A" to listen to Monitor A and channel "B" to listen to Monitor B.	Audio should be heard through wireless headphones.
Press SOURCE button on Monitor B until it reads Monitor A.	DVD in Monitor A should be displayed on Monitor B also.
Press SOURCE button on Monitor A until it reads Monitor B.	DVD in Monitor B should be displayed on Monitor A also.
Depress eject button on the remote control or front panel.	Disc should eject.
Turn on vehicle radio and set station to the frequency set on FM transmitter (if available).	Only audio from Monitor A should be heard through vehicle speakers.

## Remote Control Operations

### Installing the Battery

Before attempting to operate your remote control, install the batteries as described below.

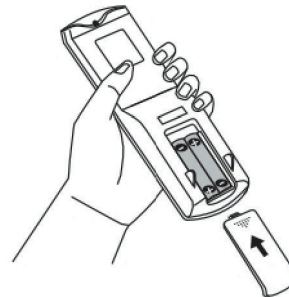
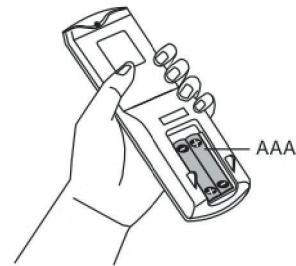
1. Turn the remote control face down. Press down on the ridged area of the battery cover and slide it off.
2. Install two "AAA" batteries as shown. Make sure that proper polarity (+ or -) is observed.
3. Slide the cover back until it clicks.



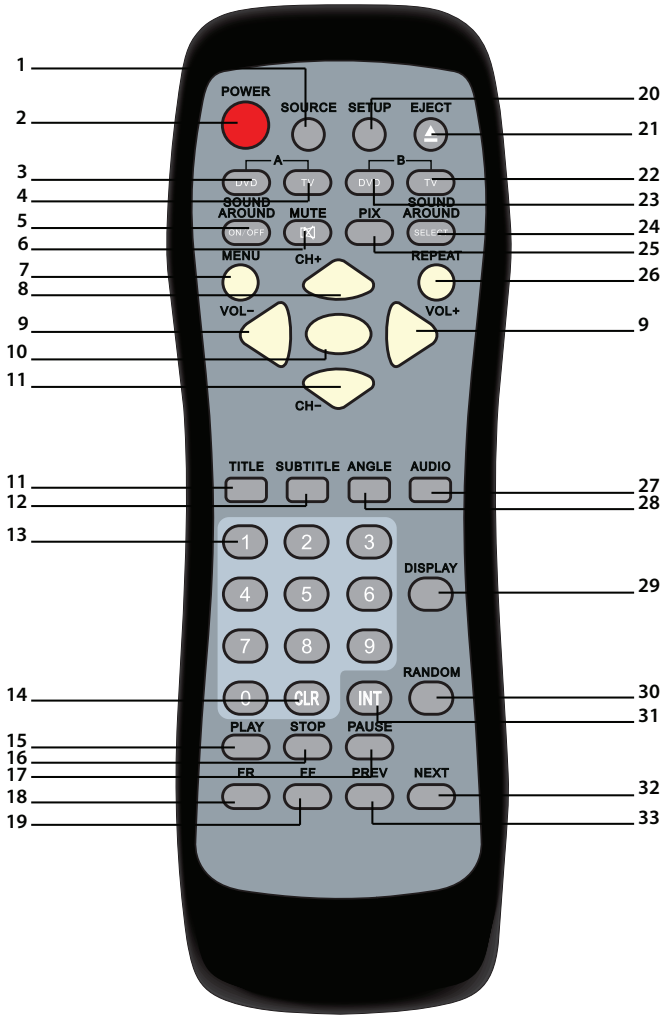
The remote control will only operate this device. It is not a universal remote control and will not control other equipment.

### Warning/Caution on using batteries

- Always ensure that the batteries are inserted with the positive and negative terminals in the correct direction as shown in the battery compartment.
- Different types of batteries have different characteristics. Do not mix different types.
- Do not mix old and new batteries. Mixing old and new batteries will shorten battery life and/or cause chemical leaks from the old batteries.
- When batteries fail to function, replace them immediately.
- Keep the batteries out of the reach of children. Should the batteries be swallowed, immediately consult a doctor. Also, when disposing of used batteries, please comply with governmental regulations or environmental public institution rules that apply in your country/area.
- Remove the batteries if the remote control is not used for a month or longer.



# Button Function Descriptions



1. **SOURCE**  
Any video equipment connected to the audio/video inputs can be used with the monitor by pressing this button. Each time the button is pressed, the audio/video source will change in the following sequence: Monitor A, Monitor B, AUX/TV, AUX 2.
2. **POWER**  
Press the button to turn the device on. The current video source will be displayed on the screen, and the picture will appear in a few seconds. Press the button again to turn the device off.
3. **DVD-Monitor A**  
Transmit IR codes for DVD mode of MONITOR A.
4. **TV-Monitor A** (If available)  
Transmit IR codes for TV mode of Monitor A.
5. **SOUND AROUND ON/OFF** (If available)  
Turn the FM transmitter ON/OFF.
6. **MUTE** (for DVD only)  
Press the button to shut off the sound transmitted to the headphone stations. The screen will display that the sound has been turned off. Pressing the button again restores sound to the previously set level.
7. **MENU**  
Press the button to go to the Root Menu included on the disc.
8. **UP, DOWN**  
For DVD: Navigation button, you can use this button to move the select bar to items among the menu or file list. For TV: Use these buttons to advance to the next higher or lower channel. For OSD: Increase or decrease the setting of selected item.
9. **LEFT, RIGHT**  
Navigation button; you can use this button to move the select bar to one of the items in the menu or file list.
10. **ENTER**  
Makes a selection or begins playback of the disc.
11. **TITLE**  
Navigate the title menu included in the disc.
12. **SUBTITLE**  
Press this button. If the current disc has different subtitles options, this now appears on the screen. Press this button repeatedly until you have reached your desired subtitles option.
13. **Numbers**  
Decimal number: 0 to 9.
14. **CLR**  
Press this button to clear any wrong numeric input from the number keypad.
15. **PLAY**  
Press this button to Play a disc that is inserted into the DVD Player.
16. **STOP**  
Stop playing the movie or songs.  
STOP PLAY: Resumes disc playback.  
STOP STOP PLAY: Resumes from the beginning of the disc.
17. **PAUSE**  
While playing, press this button to pause the playback of the CD or DVD.
18. **FR (Fast Rewind)**  
Press this button to search disc backward continuously. There are 5 speed options to choose: 2X, 4X, 8X, 16X, and 32X.
19. **FF (Fast Forward)**  
Press this button to search disc forward continuously. There are 5 speed options to choose: 2X, 4X, 8X, 16X, and 32X.
20. **SETUP**  
Navigate the Setup Menu. Please refer to the appropriate section of this manual for detailed information on each menu.

21. **EJECT**  
Eject the disc from the disc compartment or load the disc into the disc compartment.
22. **TV-Monitor B (If available)**  
Transmit IR codes for TV mode of Monitor B.
23. **24. DVD-Monitor B**  
Transmit IR codes for DVD mode of Monitor B.
24. **SOUND AROUND SELECT** (If available)  
Select a FM transmitter channel.
25. **PIX** (Picture Selection)  
Each time the button is pressed, the picture adjustment OSD, cycles through bars for BRIGHTNESS, CONTRAST, SATURATION, HUE, SHARPNESS, IR HEADPHONE, and RESET. Once the desired adjustment bar is displayed, use the UP/DOWN button to adjust the setting. The bar display will automatically disappear, if no adjustments are made within 6 seconds or if any button is pressed.
26. **REPEAT**  
Press this button to switch the repeat mode by ALL, TITLE, CHAPTER and cancel the repeat mode while playing DVD-video. Other disc types such as VCD, CD, and SVCD that only have two repeat modes that can be selected: TRACK and ALL  
Note: Both repeat functions of VCD and SVCD need the PBC status set to ON when available.
27. **AUDIO**  
Press this button if the current disc has different language options.  
Press this button repeatedly until you have reached your desired language option.
28. **ANGLE**  
View with a different camera angle (the button takes effect only on the DVD that supports frames with multiple angles).  
Press this button repeatedly until you have reached your desired viewing angle.
29. **DISPLAY**  
Show information on the screen including title, chapter/track, time elapsed, and time remaining, or turn off the display.
30. **RANDOM**  
Play titles randomly.
31. **INT (Intro/Scan)**  
Press this button to play each audio file for 10 seconds to scan/review the files. This button acts as a toggle for this feature.
32. **NEXT**  
When a disc has more than one Chapter, Track, or File, you can move to another Chapter/Track/File.  
Press the button briefly during play to select the next Chapter for DVD-video or Track/File for VCD, SVCD, MP3, CD, etc.
33. **PREV**  
When a disc has more than one Chapter, Track, or File, you can move to another Chapter/Track/File.  
Press this button briefly during play to step back to the previous Chapter for DVD-video or Track/File for VCD, SVCD, MP3, CD, etc.

**Note:**  
The remote control incorporates an infrared sensor that relays signals from the remote control to be controlled simply by pointing its remote control at the remote sensor eye. This provides control of auxiliary equipment such as a video DVD player. The infrared sensor cannot relay signals from any other manufacturer's remote control to its respective component connected to the AUX input, such as a DVD player. In this case, you must use the remote control supplied with the device.

## General Operating Instructions

### Turning the Device ON or OFF

1. Pivot the screen downward until a comfortable viewing angle is reached.
2. Press the POWER button on the lower-left corner of the front panel or the remote control to turn the device on or off. When in use, the controls will be lit.
3. After the device has been turned on and is displaying a picture, adjust the viewing angle by pivoting the screen to optimize the picture quality.
4. Remember to turn the device off and pivot the LCD panel to the locked position when not in use.

### DVD Basic

To get the most use out of each DVD, make sure you read this section completely.

#### Regional Coding

Both the DVD player and disc are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play by default. The system is preset to the region code designated for your area by the DVD Copy Control Association. Other regions may not be played in this system.

#### Type of Discs your DVD will play

DVD-Video: DVD contains video.

DVD +/- R: DVD contains video.

CD-DA: CD contains musical or sound content only.

CD-Video: CD contains movie only.

CD-R/RW: A disc that contains audio files (for example, a CD-R with downloaded MP3 files), MPEG, or JPEG files.

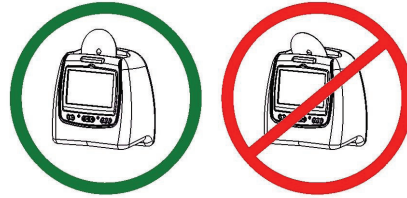
### Loading and Playing Discs

Before you load a disc, make sure that it is compatible with the player. Note that the following discs **CANNOT** be used with this player:

Optical disc- CD-1, CD-ROM, and DVD-ROM  
Mini disc- CDG (audio only, not graphics)

#### To Load and Play a Disc

When you press the **POWER** button the system turns on in DVD mode. Place the disc about halfway into the disc compartment slot, with the disc's label facing the rear of the vehicle. player, do NOT insert the disc at an angle. The disc must be inserted straight into the player.



The disc will load automatically and begin to play. (Some discs may start at the root menu, where play must be selected to start movie.)

Depending on the disk and playback location on the disc, the icon may be displayed in the upper-left corner of the screen indicating that still playback is not possible.

### Notes on Discs

- To keep a disc clean, do not touch its surface. Handle the disc by its edge.
- Keep your discs in their cases or disc magazines when not in use. Also, do not subject disc to heat/high temperature. Avoid leaving them in a parked vehicle or on a dashboard/rear tray.
- Do not attach labels, or use discs with sticky ink/residue. Such discs may stop spinning when used, causing a malfunction, or may ruin the disc.



- Do not use any discs with labels or stickers attached. The following malfunctions may result from using such discs:
  - Inability to eject a disc (due to a label or sticker peeling off and jamming the eject mechanism).
  - Inability to read audio data correctly (i.e., playback skipping, or no playback) due to heat shrinking of a sticker or label causing a disc to warp.

- Before playing, clean the discs with a commercially available cleaning cloth. Wipe each disc from the center out. Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analog discs.



- Use only normal, round discs. If you insert irregular, non-round, shaped discs they may jam in the DVD player or not play properly.



## How to use the DVD OSD Menu

This section describes how to set and adjust settings using the on-screen setup pages included in the On-screen Display (OSD) Menu. You can use the OSD menu screen to adjust all the settings on your screen. Follow the steps outlined below to select the function you desire, and refer to the pages indicated for more information.

### General Setup Menu



Press the **SETUP** button on the remote control, use the **▲▼** and the **▶◀** buttons to navigate the Setup Page. Press **ENTER** to select and then the **◀** to return to the sub-menu.



(Accessible when no disc is loaded)

To cancel using the Setup Display : Press the **SETUP** button on the remote

### OSD Language Menu



(Accessible when no disc is loaded)

The OSD Lang sub-menu allows the user to select the language for the on-screen display. Press the right (forward) button and then use the up and down buttons on the remote control to select the desired language. The user can select English, Simple / Traditional Chinese, French, German, Italian, Spanish, Portuguese or Korean for the OSD language. Press **ENTER** to select and then the left (back) button to return to the sub-menu.

### Angle Mark Menu



(Accessible when no disc is loaded)

The angle mark is an option for different viewing angles on the DVD.

Press the **▶** or **◀** button to turn the angle mark setting on or off. Press **ENTER** to select and then the **◀** button to return to the sub-menu.

## Audio Setup Menu



(Accessible when no disc is loaded)

Press the SETUP button on the remote control, use the ▲▼ and the ► or ◀ buttons to navigate the Setup Page. Press ENTER to select and then the ◀ to return to the sub-menu.

## Speaker Setup Menu



Press the Setup button on the remote control. Press the ► once to reach the Audio Setup Page. Press ENTER to navigate to the sub-menu. Use these the ▲▼ and ►◀ to navigate the sub-menus. Press the ENTER or ► button to select an item and then the ►◀ buttons to see the selection items. Press ENTER to select and then the ◀ to return to the sub-menu.

- The Speaker Setup menu has the following options: LT/RT, Stereo, V SURR and OFF.

- The Dolby Digital Setup menu has the following options: Stereo, L-Mono, R-Mono and Mix-Mono.

## Quality Setup Menu



(Accessible when no disc is loaded)

Press the SETUP button on the remote control, use the ▲▼ and the ► or ◀ buttons to navigate the Setup Page. Press ENTER to select and then the ◀ to return to the sub-menu.

## Video Quality Setup Menu



Press the SETUP button on the remote control, press the ► to navigate to the Video Setup Page. Press ENTER twice to enter the sub-menu. Use the ▲▼ and the ► or ◀ to navigate the sub-menus. Press the ENTER or ► button to select an item and then the ►◀ buttons to see the selection items. Press ENTER to select and then the ◀ to return to the sub-menu.

## Video Quality Setup



Option	Description	Range	Default
SHARPNESS	Adjust to soften or sharpen the picture	Low/Med/High	Default
BRIGHTNESS	Adjust to brighten or darken the picture.	-20 ~ +20	50
CONTRAST	Adjust to increase or decrease picture contrast.	-16 ~ +16	50
HUE	Adjust to increase or decrease the color hue	-09 ~ +09	50
SATURATION	Adjust to increase or decrease color intensity.	-09 ~ +09	50

## How to use the Device OSD Menu

### Preference Setup Menu (Accessible when no disc is loaded)



Press the SETUP button on the remote control, use the ▲▼ and the ► or ◀ buttons to navigate the Setup Page. Press ENTER to select and then the ◀ to return to the sub-menu.

### Setting for Audio

This section of the Setup Menu allows the user to control the audio stream in the selected language for playback automatically.

### Settings for Subtitle

This section of the Setup Menu allows the user to turn the subtitles ON or OFF in the selected language for playback automatically.

### Settings for Disc Menu

This section of the Setup Menu allows the user to control the DVD disc menu in the selected language.

### Settings for Parental

This section of the Setup Menu allows user to control the content of movie playback from G to ADULT. The parental control function allows you to limit viewing to your preference. The rating levels are from 1 to 8 and are country dependant.

After navigating to the Parental sub- menu under the Preference Page, use the ► and ▲▼ the buttons on the remote control to select: KID SAFE (Children); G; PG; PG 13; PGR; R; NC 17; ADULT. NOTE: The lower the value, the more strict the limitation.

### Setting the Parental Control Password

1. Press the SETUP button and navigate to the Password submenu under the Password Setup Page. The menu appears and allows you to change the parental control password.

2. Press the ► button and then press the ENTER button on the remote control to enter the sub-menu.

- Old Password: Input the old password or the default pass- word (6 digits).
- New Password: Input a new password (6 digits) using numeric buttons.
- Confirm Password: Confirm the new password by entering the same new password again.

3. Scroll to the OK button and press the ENTER button on the remote control. Your password has been changed.

(Note: The default password is 136900)

### Default Setting

Press the SETUP button on the remote control, navigate to the default sub-menu under the Preference page using the ▲▼ and the ► buttons.

Press the ► button then press ENTER to carry out the reset (this function will not affect the parental settings)

## Playing an Audio CD

When playing an audio CD, the DISPLAY banner appears automatically. It displays the current track and the amount of time the track has been playing, the total amount of time on the disc and the current time running on the disc.

Press the **DISPLAY** button on the remote control to display the DISPLAY banner.

The options below show you what happens when you press the **DISPLAY** button.

### Press DISPLAY (1x)

"Single Elapsed" appears along with the current track playing and the time of that track.

### Press DISPLAY (2x)

"Single Remain" appears along with the current track playing and the amount of time left.

### Press DISPLAY (3x)


"Total Elapsed" appears along with the current track playing and the total time playing on CD.


### Press DISPLAY (4x)

"Total Remain" appears along with the current track playing and the amount of time left on CD.

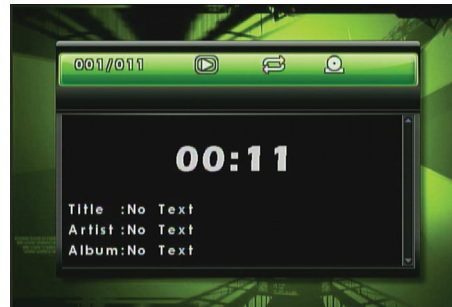
### Using the REPEAT Feature

The default mode for the **REPEAT** feature is OFF. Pressing REPEAT button on the remote control consecutively changes the REPEAT options as follows:

 - repeat the track that is playing.

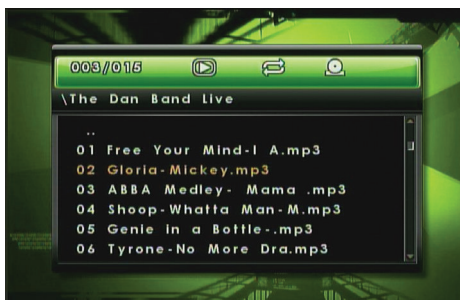
 - repeat the disc that is playing.

As you toggle through the options, the REPEAT option changes. The track repeats once that track has ended. The selected repeat option loops repeatedly until you turn it off.



## Playing a MP3 Disc

MP3 is a format for storing digital audio. An audio CD-quality song can be compressed into the MP3 format with very little loss of quality, while taking up much less space. CD-R discs that have been encoded in MP3 format can be played on your DVD player.



### Selecting Folders and Songs

When an MP3 disc is inserted in the player, the navigation screen appears automatically. You can change folders and songs by navigating the file system. The DVD player plays the songs in the order they were burned to the disc.

1. If a disc is playing, press the **DISPLAY** button on the remote control, and then press the **UP** or **DOWN** arrow buttons to go through the folder list on the left side of the navigation screen.
2. Once the folder you want is highlighted, press the **ENTER** button on the remote control.
3. Press the **UP** or **DOWN** arrow button on the remote control to go through the song list and highlight the song you want. Press the **ENTER** button to begin the playback of the highlighted song.

### Skipping Songs

Use the **▶▶** (NEXT) button on the remote control to move to the next song. Use the **◀◀** (PREV) button to move to the beginning of the currently playing song. Press the **◀◀** (PREV) button 2 times to move to the previous song.

### Selecting a Play Mode

You can choose what order the songs will play on a disc temporarily. The FOLDER play mode is the default. To access the play mode operations, press the **REPEAT** button on the remote control. The play mode options are as follows:

**Single:** Play a selected song.

**Repeat One:** Repeat the song that is playing.

**Folder:** Play the folder in the order the songs were recorded.

**Folder Repeat:** Repeat the folder that is playing.

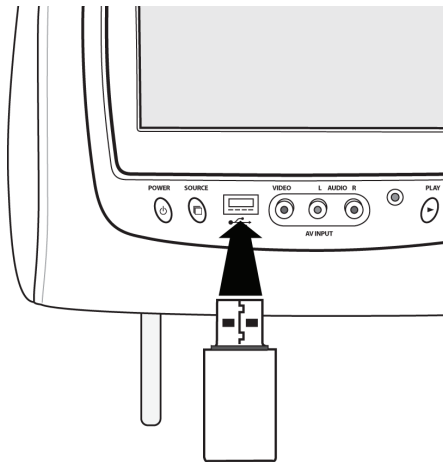
**Random:** Play the songs in the random order.

**Shuffle:** Play the songs in random order (within the selected folder).

## Connecting a USB Device

You can connect a USB mass storage device such as a USB memory stick, digital audio player (USB mass storage class device) etc. to the USB port of the REV LT unit.

The REV LT unit can play many popular formats stored in a USB device, including but not limited to the following file types: JPEG, JPG, M2V, MP3, MPE, MPEG Formats (MPEG-1, MPEG-2, MPEG-4), MPG, OGG, WMA and MWV. Turn on the REV LT unit to watch the playback picture if you playback a file. You can also control playback by referring to the REV LT unit screen.



### Order of Tracks

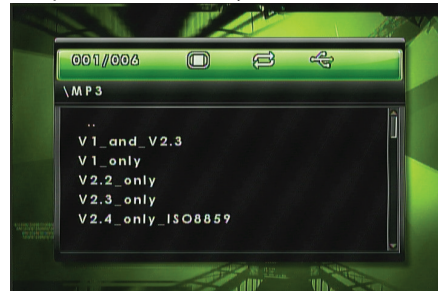
The Rev LT unit plays the files in the order that they were written to the USB drive. Therefore, the playing order may not be the same as the order shown on your device or as expected. To access the file structure/menus, for the USB device, you will need the remote control, set to the appropriate systems (A or B).

Upon insertion, the USB device may begin playing files automatically, returning to the previous position, if it was unplugged during a previous playback. To return to the menus, press MENU or LEFT ARROW, depending on the type of file being played. The current directory will appear, listing all file types.

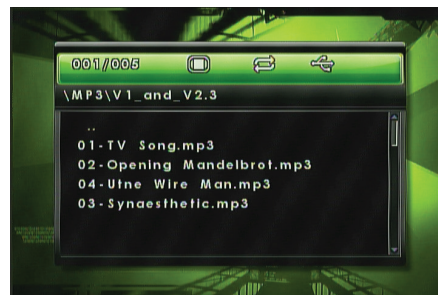
### Controls:

MENU – Return to the menu structure.  
UP / DOWN – Moves the select bar up/down within the selected menu/file list.  
LEFT – Moves menu up one level / Returns to the menu structure for some functions.  
RIGHT – Selects menu item.  
ENTER – Makes a selection or begins playback of files.  
PLAY – Press this button to play file  
STOP – Stops playing the movie/song  
PAUSE – While item is playing, press this button to temporarily stop the playback  
FR (Fast Rewind) – Press to move backwards (2x, 4x, 8x, 16x, 32x) within a file.  
FF (Fast Forward) – Press to move forwards (2x, 4x, 8x, 16x, 32x) within a file.  
PREV – Moves to previous file.  
NEXT – Moves to next file.

### Sample of Root Directory:



### File Structure:



Music Playback: Screen will display: Folder Location, Elapsed Time, and if available: Song Title, Artist, and Album.

## Connecting a MP3 Device

### Connecting a MP3 Device to your REV LT Unit via USB

Plug the MP3 Dock Connector to USB cable into a high-power USB port on your REV LT unit, and then connect the other end to the player.

See the documentation that came with your device for more information.

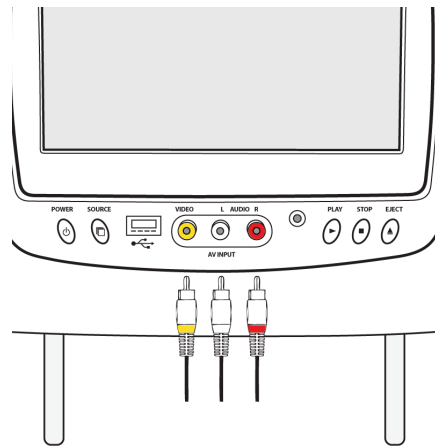
### Charging the MP3 Player Battery

Connect the device to the USB port on your REV LT unit. The REV LT unit must be turned on. Depending on the device, it may or may not charge when connected to the USB port.

Note: Not all devices are able to charge when connected to the USB port.

### Connecting a MP3 Device to your REV LT Unit via AV cable

- Connect the device using an AV cable to the headphones port . Note: Use the AV cable made specifically for the device. Other similar RCA-type cables might not work.
- Connect the video and audio connectors to the AV-IN ports on your REV LT unit, as shown.





## Troubleshooting

Symptom	Remedy
Device does not power "ON"	<ul style="list-style-type: none"> <li>• Is ignition turned "ON"?</li> <li>• Are batteries installed in remote control?</li> </ul>
IR sensor inoperative	<ul style="list-style-type: none"> <li>• Verify that the batteries in the remote control are good.</li> <li>• Verify that the remote sensor eye is not obstructed.</li> <li>• Verify that the infrared transmitter is affixed over the sensor eye of the component to be controlled.</li> </ul>
Disc won't play	<ul style="list-style-type: none"> <li>• Insert a disc with label side rear of the vehicle.</li> <li>• Check if the disc is defective by trying another disc.</li> <li>• Check the type of disc you put into DVD compartment slot. This DVD player only plays DVDs, audio CDs, and MP3s.</li> <li>• Both the device and the disc are coded by region. If the regional codes don't match, the disc can't be played. This DVD player is set to region number 1.</li> </ul>
Disc plays, but then stops immediately	<ul style="list-style-type: none"> <li>• The disc is dirty and needs cleaning.</li> <li>• Condensation has formed. Allow player to dry out.</li> </ul>
No picture	<ul style="list-style-type: none"> <li>• Check that the signal source is connected.</li> <li>• The setting may be in the wrong status. Match your monitor mode with the source correctly.</li> </ul>
Distorted picture	<ul style="list-style-type: none"> <li>• Check the disc for fingerprints and clean with a soft cloth, wiping from center to edge.</li> <li>• Sometimes a small amount of picture distortion may appear. This is not a malfunction.</li> </ul>
Cannot advance through a movie	<ul style="list-style-type: none"> <li>• You cannot advance through the opening credits and warning information that appears at the beginning of movies because the disc is programmed to prohibit that action.</li> </ul>
No sound or distorted sound	<ul style="list-style-type: none"> <li>• Make sure that the DVD player is connected properly, and all cables are securely inserted into the appropriate jacks.</li> <li>• If you are using the IR headphones, make sure you turn on the IR power.</li> <li>• Is volume turned "UP" on headphones?</li> <li>• Is anything blocking signal between monitor and headphones?</li> </ul>
Device feels warm	<ul style="list-style-type: none"> <li>• When the device is in use for a long period of time, the surface will be warm. This is normal.</li> </ul>
Player does not respond to all commands during playback	<ul style="list-style-type: none"> <li>• Operations are not permitted by the disc.</li> <li>• Refer to the instructions in the disc inlay.</li> </ul>

## Specifications

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Dimensions	210(W) x 190(H) x 50(D) mm
Weight	.862 Kg
Power Consumption	Operation <17W Standby <2.5W
LCD Backlight	LED
Resolution	480x3(RGB) x234 TFT LCD Panel
Luminance	450cd/m2 (typ.)
DVD	Slot-In Loader
Supported Disc	DVD (Single, Dual Layer), DVD-R/+R, DVD+R Dual layer, DVD-RW/+RW, CD, CD-R, CD-RW
Supported Format	DVD (Single, Dual Layer), DVD-R/+R, DVD+R Dual layer, DVD-RW/+RW, CD, CD-R, CD-RW
Source	Internal DVD, CD, Analog AV input
Operation Temperature/Humidity	-20°C~70°C/20~90% RH
Storage Temperature/Humidity	-30°C~85°C/5~95% RH
Expected Backlight Life	10,000 hours
Video Display System	NTSC/PAL
Supply Input Voltage	10V~16V DC
Maximum Input Current	1.3A (Vin = 10V DC)
Frequency Response	20Hz ~20KHz ± 1dB
Signal/Noise Ratio	≥ 85dB
Audio Distortion + Noise	≤ -80dB (1KHz)

Acoustic Noise	40dB
Control Button on the Front Panel	POWER, SOURCE, PLAY, STOP, EJECT
I/O Ports	1/8" Headphone Jack, AV In RCA Jacks
Audio Out (analog audio)0.4 (headphone)	Output Level: 2V ± 10%
Load Impedance (Audio Out)	10KΩ
Video Out Output Level	1Vp-p ± 20%
Load Impedance (Video Out)	75Ω
Wireless Audio	Dual channel infrared audio transmitter, Support IR receiver stereo headphone (reception: 0.9 m; 80°, 1.8 m; 50°)
IR Channels	Channels A: 2.3/2.8 MHZ B: 3.3/3.8 MHZ 3: Proprietary 4: Proprietary

## Compliance Information

### FCC Notice

This device 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 device 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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause unacceptable interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician for help.

#### FCC Warning:

To assure continued FCC compliance, the user must use the provided grounded power supply cord and the shielded video interface cable with bonded ferrite cores. Also, any unauthorized change or modifications to this device would void the user's authority to operate this device.



### WEEE Notice

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that device shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this device is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this device. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this device, please contact your local city office, your household waste disposal service or the shop where you purchased the device. Applicable accessory: remote control.

### Macrovision Notice

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

## Warranty

INVISION Automotive Systems Inc., (the "Company") warrants to the original retail purchaser of this product, when purchased from a participating new car dealership, that should this product under normal use and conditions, be proven defective in material or workmanship, such defect(s) will be repaired or replaced with reconditioned product (at the Company's option) without charge for parts and repair labor when the work is performed by the original dealership of purchase, or an authorized representative of that dealership.

This Warranty will match the warranty of the Original Equipment Manufacturer ("OEM") when installed on a new vehicle with a minimum of 36 months or 36,000 miles. If the product is installed on a used vehicle, then only a 12 month or 12,000 mile Warranty from the date of installation will apply. This Warranty is not applicable to any extended warranty purchased.

To obtain repair or replacement within the terms of this Warranty, the product must be returned to a participating new car dealership for warranty service or replacement. The dealership will perform troubleshooting to determine if repair or replacement is warranted. If a participating dealership cannot be contacted, then the Purchaser should contact the Company to obtain the name and location of a dealership where service under this Warranty can be obtained.

This Warranty does not extend to the elimination of externally generated static or noise, correction of antenna problems, costs incurred for installation, removal or reinstallation of the product, or to damage to digital memory devices, media devices, gaming devices, discs, speakers, accessories, or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED

THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, MUST BE BROUGHT WITHIN A PERIOD OF 48 MONTHS FROM THE DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Notes

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