

SEAT TOP SERIES

Rear Seat Entertainment System

Owners Manual



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Welcome

Thank you for purchasing this Rear Seat Entertainment System 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 monitors should never be installed where they 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 infrared device, make sure it is powered off when operating the Rear Seat Entertainment System. If both systems are powered on at the same time, the two systems may obstruct each other, possibly creating undesirable audio interference through the wireless headphones.

Safety Precaution

For safety reasons, when changing video discs it is recommended that the vehicle is not in motion, and that you do not allow children to unfasten safety belts to change discs 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.

Caution:

Be sure to run the vehicle engine while using the system. Using this system without running the engine can result in battery drain. To avoid the risk of battery drain, please remember to turn off the system when the vehicle is not in use.

Product Features

Monitor A

- 8-inch Color TFT-LCD Panel (800x480) with 16:9 aspect ratio
- Built-in Top-Loading DVD Player
- Infrared Transmitter for IR Wireless Headphones
- 3.5mm Audio/Video Input
- USB 2.0 Input with Charging Capability*
- SD Card Input
- Mini HDMI Input
- 3.5mm Stereo Headphone Output
- Remote Sensor on the Front Panel
- Full Function Remote Control
- 5 Control Buttons on the Front Panel: Power, Source, Play/Pause, Stop, and Eject
- OSD (On Screen Display)
- Built-in FM Transmitter

Monitor B

- 8-inch Color TFT-LCD Panel (800x480) with 16:9 aspect ratio
- Infrared Transmitter for IR Wireless Headphones
- 3.5mm Audio/Video Input
- USB 2.0 Input with Charging Capability*
- SD Card Input
- Mini HDMI Input
- 3.5mm Stereo Headphone Output
- Remote Sensor on the Front Panel
- Full Function Remote Control
- 2 Control Buttons on the Front Panel: Power and Source
- OSD (On Screen Display)

* **Note:** Depending on the USB device, it may or may not charge when connected to the USB port. Not all devices are able to charge when connected to the USB port.

Refer the documentation that came with your USB device for more information.

Wireless Headphones

Each monitor includes a built-in dual channel infrared transmitter for use with wireless headphones. The wireless headphones must be used within a line of sight from the transmitter as infrared transmission, like visible light, travels only in a straight line.

How to use the Wireless Headphones

When placing the headphones on your head, make sure to observe the Left and Right orientation. The headphones must be oriented correctly (facing forward) in order to receive the audio signal. Press the power button on the headphones, then select channel "A" to listen to monitor A, or channel "B" listen to monitor B. Adjust the audio level using the volume control on each headphone.

Wired Headphones

There is a 3.5mm stereo headphone output jack on each monitor which can be used with any standard stereo headphone with an in-line volume control.

Auxiliary Audio/Video Connection

An external A/V source such as a media player, video game, or other audio/video device may be connected to the 3.5mm auxiliary input labeled AUX IN. An optional adapter (sold separately) may be used to convert the 3.5mm input to standard RCA jacks.

Yellow: Video input
Red: Audio - right channel input
White: Audio - left channel input

To display and listen to the audio/video signal of an external source, connect the external source to the 3.5mm auxiliary input and select AUX mode.

Wireless FM Transmitter

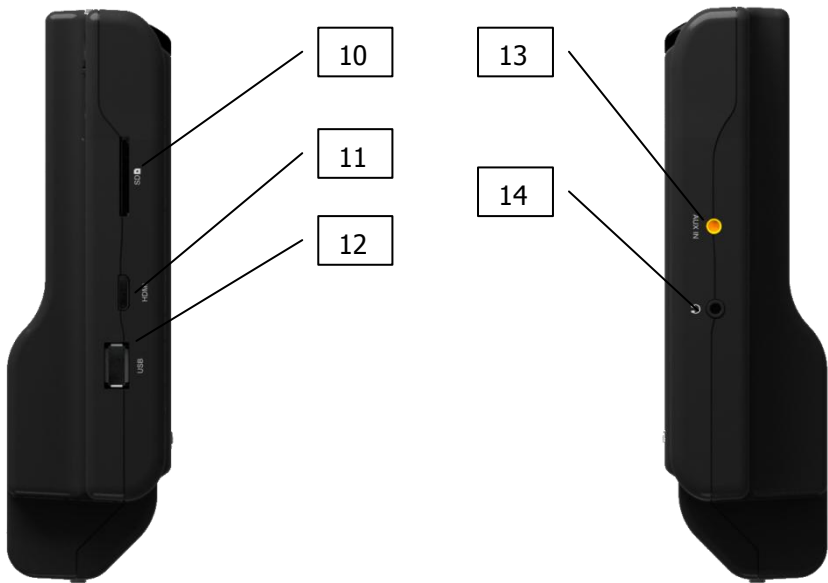
Monitor A includes a built-in FM transmitter, which allows you to listen to the audio signal through your vehicle's FM radio. Activate the FM transmitter by pressing the FM TX button on the remote control and select the desired frequency. Whenever the FM transmitter is active, normal broadcast radio reception may be poor. Performance may vary based on geographic location. To resume normal broadcast reception, turn off the FM transmitter located on monitor A.

How to use the FM Transmitter

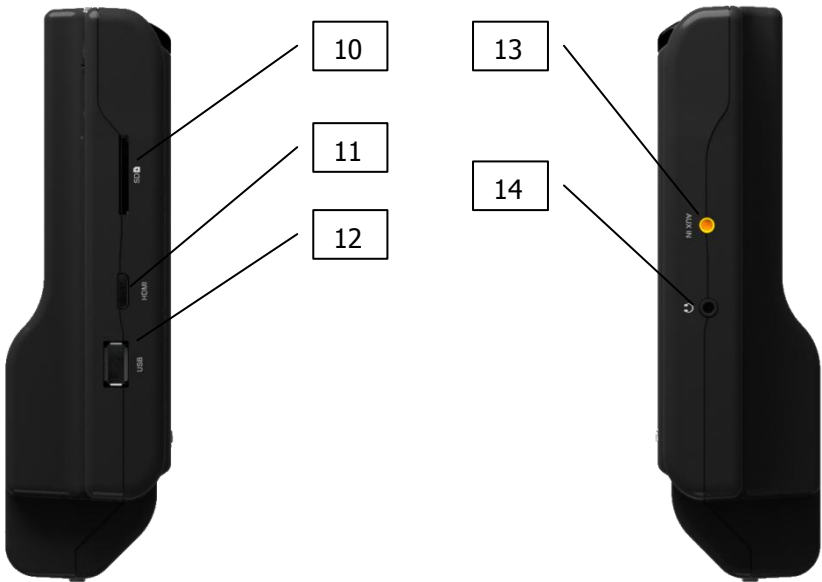
Power up your system and insert a disc in monitor A. While pointing your remote at the monitor press the FM TX button on your remote control. Next, press the FM TX button again to turn the FM transmitter on or off. Press the arrow Up/Down buttons on the remote control to cycle through 98 possible frequencies for broadcasting the audio to your FM radio. Once you've selected a frequency, tune your FM radio to the corresponding frequency. Try several frequencies until you achieve a clear audio signal.

To deactivate the FM transmitter feature, press the FM TX button on the remote until the "FM CHANNEL OFF" is displayed on the monitor.

Control Description – Monitor A with DVD Player



Control Description – Monitor B without DVD Player



1. **Disc Compartment Slot** (Monitor A)
2. **Infrared Transmitters** These transmit audio to the wireless headphones.
3. **IR Sensor** Allows the remote control to operate the monitor.
4. **TFT LCD Panel** 8-inch TFT LCD Panel
5. **POWER Button** Press this button to turn the monitor on or off.
6. **SOURCE Button – Monitor A** Press this button to select between Disc, SD, USB, AUX, HDMI, or Monitor B inputs.
SOURCE Button – Monitor B Press this button to select between SD, USB, AUX, HDMI, or Monitor A inputs.
7. **PLAY/PAUSE Button** (Monitor A) Press this button to play/pause the media.
8. **STOP Button** (Monitor A) Press this button to stop playing the media.
9. **EJECT Button** (Monitor A) Press this button to eject the disc.
10. **SD Card Input** You can play music, images and videos stored on most SD cards.
11. **Mini HDMI Input** Connect an external audio/video source using a mini HDMI connector (sold separately).
12. **USB Port** You can play music, images, and videos stored on most USB devices.
13. **AUX Input Jack** Connect an external audio/ video source using a 3.5mm A/V connector (sold separately).
14. **Headphone Output Jack** Connect wired headphones using a 3.5mm stereo connector. Headphones must include in-line volume control in order to adjust the volume level.

Warnings

- Do not use any harsh solvents or chemicals when cleaning the unit.
- 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.
- 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

Function Checks:	Look for:
Turn vehicle ignition to ON, press power button on each monitor.	Monitor should power on and start up screen should appear.
Insert disc into monitor A, press PLAY button on the remote control or front panel.	Disc should begin playing.
Listen with wireless headphones (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 displays monitor A.	Content playing on Monitor A (except for HDMI) should be displayed on Monitor B.
Press SOURCE button on monitor A until it displays monitor B.	Media playing on Monitor B (except for HDMI) should be displayed on Monitor A.
Press eject button on the remote control or front panel of monitor A.	Disc should eject.
Activate the FM transmitter located on monitor A and tune the vehicle's radio to the frequency set on FM transmitter.	Audio should be heard through vehicle's speakers.

Remote Control Operation

Installing the Batteries

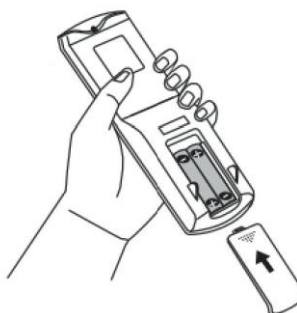
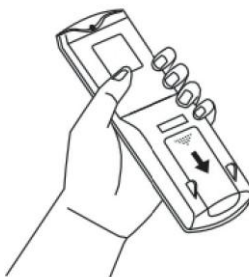
Before attempting to operate your remote control, install the batteries as described below.

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.

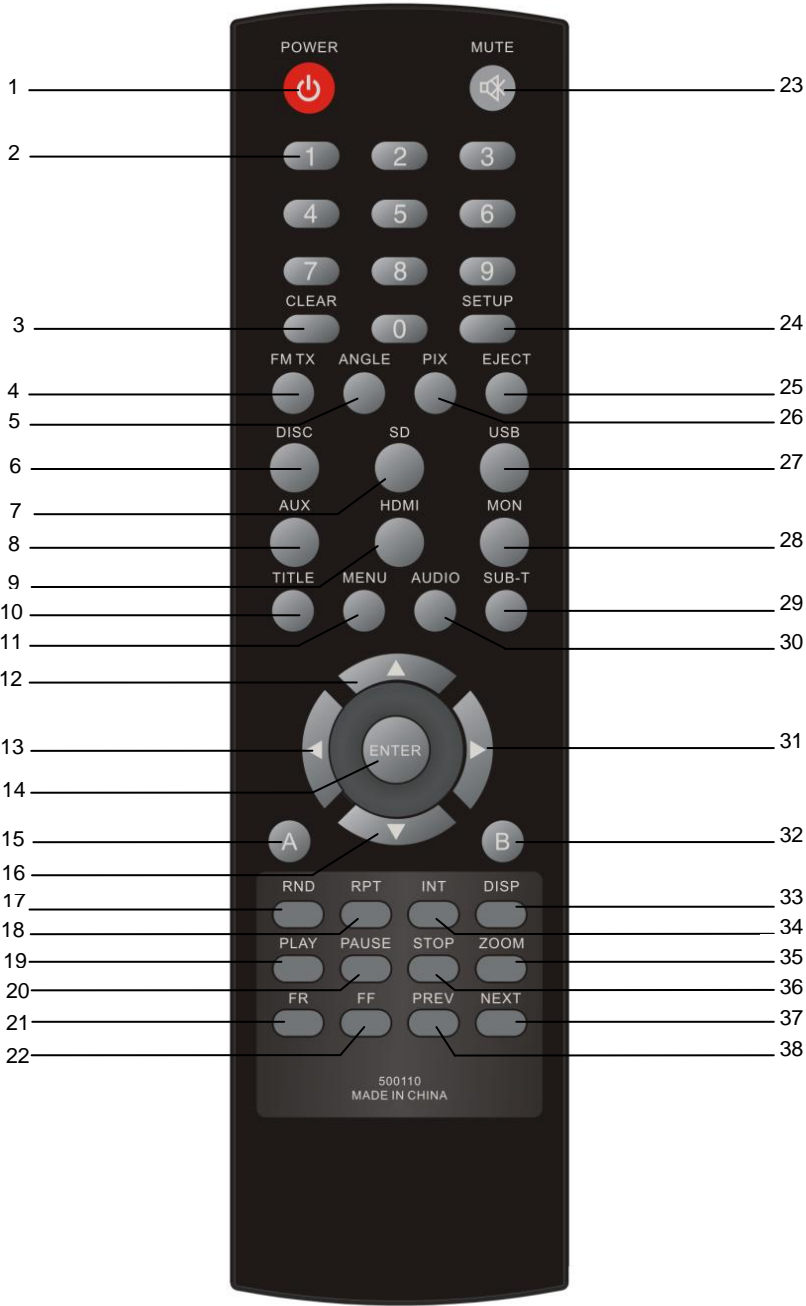
The remote control will only operate this device. It is not a universal remote control and will not control other equipment.

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. **POWER** Press this button to turn the monitor on. Press this button again to turn the monitor off.
2. **Number Keys** Decimal number: 0 to 9.
3. **CLEAR** Press this button to clear any numeric input from the number keypad.
4. **FM TX** Press this button to turn the FM transmitter ON/OFF.
5. **ANGLE** Press this button to select different viewing angles (this function only applies to DVD titles that support multiple angles).
6. **DISC** Press this button select DISC mode (Monitor A only).
7. **SD** Press this button to select SD card mode.
8. **AUX** Press this button to select auxiliary input mode.
9. **HDMI** Press this button to select HDMI mode.
10. **TITLE** Press this button to navigate the title menu included on the disc.
11. **MENU** Press the button to go to the root menu included on the disc.
12. **UP** Press this button to navigate up when displaying a menu or file list.
13. **LEFT** Press this button to navigate left when displaying a menu or file list.
14. **ENTER** Press this button to make a selection or begin playback of the media.
15. **A** Press this button to transmit the remote control codes and functions for monitor A.
16. **DOWN** Press this button to navigate down when displaying a menu or file list.
17. **RND** Press this button to play content in random order.
18. **RPT** Press this button to select between different repeat modes.
19. **PLAY** Press this button to begin media playback.
20. **PAUSE** Press this button to pause media playback.
21. **FR (Fast Rewind)** Press this button to search media backward.
22. **FF (Fast Forward)** Press this button to search media forward.
23. **MUTE** Press this button to mute the audio. Press this button again to resume audio.
24. **SETUP** Press this button to navigate the setup menu. Please refer to pages 15 and 25 for detailed information on each setup menu.
25. **EJECT** Press this button to eject the disc from Monitor A.
26. **PIX** Press this button to access the picture adjustment menu and select between BRIGHTNESS, CONTRAST, SATURATION, HUE, SHARPNESS, and RESET. Press the UP/DOWN arrow buttons to adjust the setting.
27. **USB** Press this button to select USB mode.
28. **MON** Press this button to select Monitor mode (A or B) as the input.
29. **SUB-T (Subtitle)** Press this button to select and display subtitles (this function only applies to DVD titles that support subtitles).
30. **AUDIO** Press this button to select and listen to different audio streams (this function only applies to DVD titles that support multiple audio streams).
31. **RIGHT** Press this button to navigate right when displaying a menu or file list.
32. **B** Press this button to transmit the remote control codes and functions for monitor B.
33. **DISP (Display)** Press this button to display various information including title,

chapter/track, elapsed time, time remaining, or to turn off the display.

- 34. **INT (Intro)** Press this button to play each audio file for 10 seconds. Press this button again to cancel the Intro function.
- 35. **ZOOM** Press this button to zoom in or out when displaying images or video files.
- 36. **STOP** Press this button once to stop playback. (Press play to resume playback.) Press this button twice to perform a full stop. (Press play to start playback from the beginning.)
- 37. **NEXT** Press this button to select the next chapter, track, or file.
- 38. **PREV** Press this button to select the previous chapter, track, or file.

General Operating Instructions

Turning the monitor ON or OFF

1. If necessary, pivot the screen downward until a comfortable viewing angle is reached.
2. Press the **POWER** button on the front panel or the remote control to turn the monitor on or off. When powered on, the front panel controls will illuminate.
3. After the monitor 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 monitor off when not in use.

DVD - Basic Overview

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

Regional Coding

Both the DVD player and discs are coded by region. These regional codes must match in order for the disc to play. 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 monitor will play:

DVD-Video: DVD contains video.

DVD +/- R: DVD contains video.

CD-DA: CD contains audio.

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 system: Optical disc- CD-1, CD-ROM, and DVD-ROM Mini disc- CDG (audio only, not graphics) (List is not all inclusive).

To Load and Play a Disc

Press the **POWER** button on monitor A to turn the system on. The system turns on in Disc mode by default. Place the disc about halfway into the disc compartment slot, with the disc's label facing the rear of the vehicle. 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 playback must be selected to start a movie.) Depending on the disc and playback location on the disc, the icon may be displayed in the upper-left corner of the screen indicating that playback is not possible during certain times.

SD Cards and USB Flash Drives

Due to ongoing technological advancements, some USB flash drives and/or SD cards may be incompatible with this system.

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 sleeves 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 disc 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, circular discs. If you insert irregular, non-round, shaped discs they may jam in the DVD player or not play properly.

Monitor A

How to use the 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 desired function.

General Setup Page

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. To cancel the Setup Display, press the **SETUP** button on the remote.



OSD Language



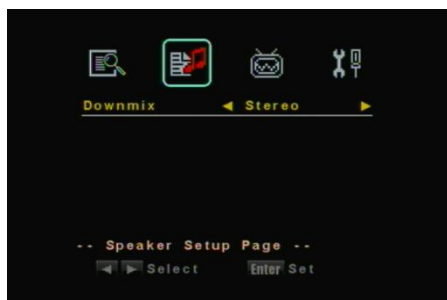
The OSD Lang sub-menu allows the user to select the language for the on-screen display. When the OSD Lang option is highlighted, press the **►** button once and then use the **◀** **►** buttons on the remote control to select the desired language. The user can select English, Simplified / Traditional Chinese, French, German, Italian, Spanish, Portuguese, or Korean for the OSD language. Press **ENTER** to select and then the **◀** button to return to the sub-menu.

Angle Mark



The angle mark is an option for different viewing angles on the DVD. When the Angle Mark option is highlighted, press the **►** button once and then use the **◀** **►** buttons on the remote control to turn the angle mark setting on or off. Press **ENTER** to select and then the **◀** button to return to the sub-menu.

Speaker Setup Page



Downmix

When the Downmix option is highlighted, press the ► button once and then use the ◀ ► buttons on the remote control to select between Stereo or LT/RT. Press **ENTER** to select and then the ◀ button to return to the sub-menu.

Video Setup Page



Video Quality

When the Quality option is highlighted, press **ENTER** and then use the ▲▼ and the ► or ◀ buttons on the remote control to select between the various video quality settings. Press **ENTER** to select and then the ◀ button to return to the sub-menu.

Video Quality Setup



Option	Description	Range	Default
Sharpness	Adjust to soften or sharpen the picture.	Low/Med/High	Low
Brightness	Adjust to brighten or darken the picture.	-20 ~ +20	00
Contrast	Adjust to increase or decrease picture contrast.	-16 ~ +16	00
Gamma	Adjust to increase or decrease the picture gamma.	Low/Med/High/None	None
Hue	Adjust to increase or decrease the color hue.	-09 ~ +09	00
Saturation	Adjust to increase or decrease color intensity.	-09 ~ +09	00
Luma Delay	Adjust to change the Luma delay.	0T or 1T	1T

Preference Page



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 **◀** button to return to the sub-menu.

Audio



The Audio sub-menu allows the user to select the audio stream in the desired language for playback. When the Audio option is highlighted, press the **►** button once and then use the **◀►** buttons on the remote control to select the desired language. The user can select English, French, Spanish, Chinese, Japanese, German, Portuguese, Italian, Korean, Russian, or Tai for the audio stream language. Press **ENTER** to select and then the **◀** button to return to the sub-menu. The DVD title must include the desired audio stream in order for it to be heard during playback.

Subtitle



The Subtitle sub-menu allows the user to select the subtitle in the desired language for playback. When the Subtitle option is highlighted, press the **►** button once and then use the **◀►** buttons on the remote control to select the desired language. The user can select English, French, Spanish, Chinese, Japanese, German, Portuguese, Italian, Korean, Russian, Tai, or Off for the subtitle language. Press **ENTER** to select and then the **◀** button to return to the sub-menu. The DVD title must include the desired subtitle language in order for it to be displayed during playback.

Disc Menu



The Disc Menu sub-menu allows the user to select the desired language of the DVD disc menu. When the Disc Menu option is highlighted, press the **►** button once and then use the **◀►** buttons on the remote control to select the desired language. The user can select English, French, Spanish, Chinese, Japanese, German, Portuguese, Italian, Korean, Russian, or Tai for the Disc Menu language. Press **ENTER** to select and then the **◀** button to return to the sub-menu. The DVD title must include the desired menu language in order for it to be displayed during playback.

Parental



This section of the Setup Menu allows the user to select the level of movie content playback from KID SAFE to ADULT. The parental control function allows you to limit viewing to your preference. The rating levels range from 1 to 8 and are country dependent. The lower the rating number, the stricter the playback limitation is.

When the Parental option is highlighted, press the ► button once and then use the ◀ ► buttons on the remote control to select the desired parental control setting and press **ENTER**. (A password is required to change the Parental settings.) Using the remote control, enter the password (0000) and press **ENTER** to confirm the setting and return to the sub-menu.

Default



This section of the Setup Menu allows the user to restore all controls and values to the default levels. When the Default option is highlighted, press the ► button once and then press **ENTER** to perform the reset. (This will not affect the parental control setting).

Monitor A Playing a CD

Insert a disc into the unit with label facing the rear of vehicle and select DISC mode from the source menu using the front panel controls or the remote control.

When playing an audio CD, the information screen appears automatically. It can display the current track number along with the amount of time the track has been playing, the amount of time remaining for the track playing, the total amount of time elapsed so far, or the total amount of time remaining.

Display

Press the **DISP** button on the remote control to select the desired type of display setting. The single elapsed time of the current track is displayed by default.

Press DISP (1x)

"Single Remain" is displayed along with the current track playing and the amount of time remaining for the current track.

Press DISP (2x)

"Total Elapsed" is displayed along with the current track playing and the total amount of elapsed time.

Press DISP (3x)

"Total Remain" is displayed along with the current track playing and the total amount of time remaining.

Press the **DISP** button again to display the elapsed time of the current track.

Skipping Tracks

Press the **NEXT** button on the remote control to select to the next track. Press the **PREV** button one time to select the beginning of the current track. Press the **PREV** button two times to select the previous track.

Intro Mode

You can choose to preview the first 10 seconds of each track. To access the intro mode, press the **INT** button on the remote control. The first 10 seconds of each track will play. Press **INT** again to cancel intro mode.

Repeat Modes

The default mode for the repeat function is repeat entire disc. Press the **RPT** button on the remote control to select between the following options:



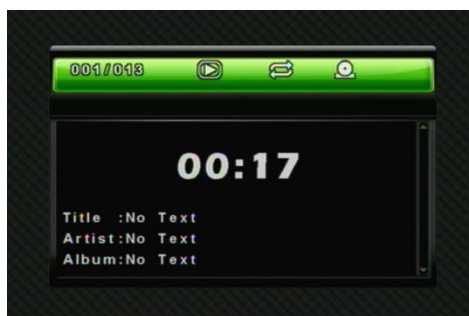
Repeat the current track.



Repeat the entire disc.

Repeat off (no icon is displayed).

As you press **RPT** button, the repeat option changes. The selected repeat option remains in effect until you turn it off.



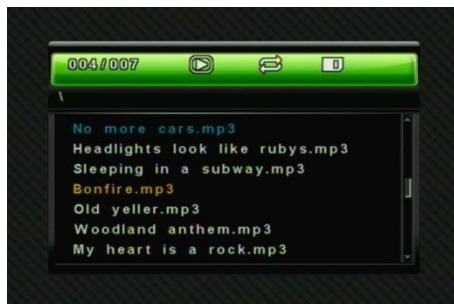
Random Mode

You can choose what order the tracks will be played. To access the random play mode, press the **RND** button on the remote control. All tracks on the disc will playback in random order. Press **RND** again to cancel random mode.

Monitor A

Playing Audio Files

MP3 and WMA are formats for storing digital audio. A CD quality song can be compressed into the MP3 or WMA format with very little loss of quality, while taking up much less storage space. Encoded discs, SD cards, and USB devices that include MP3 or WMA files can be played.



Insert a disc, SD card, or USB device into the unit and select the desired mode from the source menu using the front panel controls or the remote control.

Using a USB Device – Insert USB device into the USB port on the left side of the unit. When inserting a USB device, the top side of the device should face towards the front of the vehicle.

Using an SD card - Insert SD card into the SD card slot on the left side of the unit. When inserting an SD card, the label should face towards the front of the vehicle.

When an MP3/WMA encoded disc, SD card, or USB device is inserted, the information screen appears automatically and playback will begin.

Selecting Files

1. To change files when a file is playing, press the ▲▼ buttons on the remote control to display the file list, and then press the ▲▼ buttons to select the desired file.
2. Once the desired file is highlighted, press the **ENTER** button on the remote control to select it.

Selecting Folders

1. To select folders when a file is playing, press the ◀ button on the remote control to display the file list. Press the ▲▼ buttons to select the desired folder.
2. Press the ◀ button to access the previous level (go up one level) or, press the ▶ button to access the next level (go down one level).
3. Once the desired folder is highlighted, press the **ENTER** button on the remote control to select it.

Skipping Files

Press the **NEXT** button on the remote control to select to the next file. Press the **PREV** button one time to select the beginning of the current file. Press the **PREV** button two times to select the previous file.

Intro Mode

You can choose to preview the first 10 seconds of each file. To access the intro mode, press the **INT** button on the remote control. The first 10 seconds of each file will play. Press **INT** again to cancel intro mode.

Repeat Modes

To access the repeat mode options, press the **RPT** button on the remote control. The repeat mode options are as follows:

Repeat All: Repeat the entire disc, SD card, or USB device (default).

Repeat Folder: Repeat the current folder.

Repeat One: Repeat the current file.

Repeat Off: Playback stops after the disc, SD card, or USB device is played in its entirety.

Random Mode

You can choose what order the files will be played. To access the random play mode, press the **RND** button on the remote control. The files in the current folder will playback in random order. Press **RND** again to cancel random mode.

Monitor A

Playing Image Files



Insert a disc, SD card, or USB device into the unit and select the desired mode from the source menu using the front panel controls or the remote control.

Using a USB Device – Insert USB device into the USB port on the left side of the unit. When inserting a USB device, the top side of the device should face towards the front of the vehicle.

Using an SD card - Insert SD card into the SD card slot on the left side of the unit. When inserting an SD card, the label should face towards the front of the vehicle.

When a disc, SD card, or USB device with JPG files is inserted, playback will begin automatically. When a disc, SD card, or USB device with mixed audio/video/image files is inserted, the file list screen appears automatically.

Skipping Files

Press the **NEXT** button on the remote control to select to the next file. Press the **PREV** button to select the previous file.

Selecting Files

1. To select files during the slideshow, press the **MENU** button on the remote control to access the file list. Press the **▲▼** buttons on the remote control to select the desired file.
2. Once the desired file is highlighted, press the **ENTER** button on the remote control to select it.

Selecting Folders

1. To select folders during the slideshow, press the **MENU** button on the remote control to access the file list. Press the **▲▼** buttons to select the desired folder.
2. Press the **◀** button to access the previous level (go up one level) or, press the **▶** button to access the next level (go down one level).
3. Once the desired folder is highlighted, press the **ENTER** button on the remote control to select it.

Repeat Modes

To access the repeat mode options, press the **RPT** button on the remote control. The repeat mode options are as follows:

Repeat All: Repeat the entire disc, SD card, or USB device (default).

Repeat Folder: Repeat the current folder.

Repeat One: Repeat the current file.

Repeat Off: Playback stops after the disc, SD card, or USB device is played in its entirety.

Thumbnail View

1. Press the **STOP** button on the remote control during the slideshow to display images in thumbnail mode. Press the **▲▼** and the **▶** or **◀** buttons to select the desired image.
2. Once the desired image is highlighted, press the **ENTER** button on the remote control to select it.

Rotating Images

During the slideshow, press the **▶** button on the remote control to rotate the image 90° clockwise. Press the **◀** button to rotate the image 90° counter-clockwise.

Inverting Images

During the slideshow, press the **▲** button on the remote control to invert the image (Up-Down).

Mirroring Images

During the slideshow, press the **▼** button on the remote control to mirror the image (Left-Right).

Monitor A

Playing Video Files



Insert a disc, SD card, or USB device into the unit and select the desired mode from the source menu using the front panel controls or the remote control.

Using a USB Device – Insert USB device into the USB port on the left side of the unit. When inserting a USB device, the top side of the device should face towards the front of the vehicle.

Using an SD card - Insert SD card into the SD card slot on the left side of the unit. When inserting an SD card, the label should face towards the front of the vehicle.

When a disc, SD card, or USB device with video files is inserted, playback will begin automatically. When a disc, SD card, or USB device with mixed audio/video/image files is inserted, the file list screen appears automatically.

Skipping Files

Press the **NEXT** button on the remote control to select to the next file. Press the **PREV** button one time to select the beginning of the current file. Press the **PREV** button two times to select the previous file.

Selecting Files

1. Press the **MENU** button on the remote control to access the file list. Press the **▲ ▼** buttons on the remote control to select the desired file.
2. Once the desired file is highlighted, press the **ENTER** button on the remote control to select it.

Selecting Folders

1. To select folders during video playback, press the **MENU** button on the remote control to access the file list. Press the **▲ ▼** buttons to select the desired folder.
2. Press the **◀** button to access the previous level (go up one level) or, press the **▶** button to access the next level (go down one level).
3. Once the desired folder is highlighted, press the **ENTER** button on the remote control to select it.

Repeat Modes

To access the repeat mode options, press the **RPT** button on the remote control. The repeat mode options are as follows:

Repeat All: Repeat the entire disc, SD card, or USB device (default).

Repeat Folder: Repeat the current folder.

Repeat One: Repeat the current file.

Repeat Off: Playback stops after the disc, SD card, or USB device is played in its entirety.

Monitor A

Charging a USB Device

Plug the USB cable (not supplied) into the USB port on the left side of the monitor and then connect the other end to the USB device.

Note: Depending on the device, it may or may not charge when connected to the USB port. Not all devices are able to charge when connected to the USB port.

Refer to the documentation that came with your USB device for more information.

Monitor A

Connecting an External A/V Source – 3.5mm

Connect the external source to the 3.5mm input port on the right side of the monitor labeled "AUX IN".

Note: Use the 3.5mm A/V cable made specifically for the device. An optional adapter (sold separately) may be used to convert the 3.5mm A/V input to standard RCA jacks.

Yellow: Video input
Red: Audio - right channel input
White: Audio - left channel input

Select the AUX mode from the source menu using the front panel controls or the remote control.

Monitor A

Connecting an External A/V Source – HDMI

Connect the external source to the mini HDMI input port on the left side of the monitor labeled "HDMI".

Select the HDMI mode from the source menu using the front panel controls or the remote control.

Selecting Monitor B as the Source

It is possible to select Monitor B as the source for Monitor A. This will allow all content that is playing on monitor B (except for an externally connected HDMI device) to be displayed on monitor A.

Select the MONITOR B mode from the source menu using the front panel controls or the remote control.

Monitor B

How to use the OSD Menu

(Accessible only when an SD card or USB device is inserted)

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 desired function.

General Setup

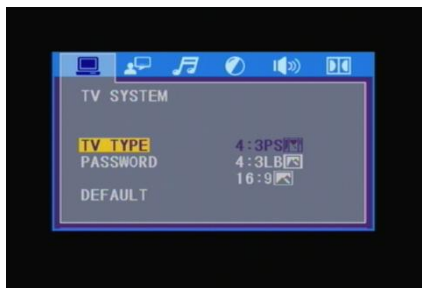
With an SD card or USB device inserted, press the **SETUP** button on the remote control. Use the **▲▼** and the **►** or **◄** buttons to navigate the Setup Menu. Highlight the desired item and press **ENTER** to select. To cancel the Setup Display, press the **SETUP** button again.

TV System



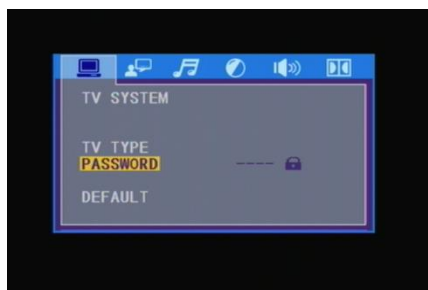
When the TV SYSTEM option is highlighted, press the **►** button once and then use the **▲▼** buttons on the remote control to select between NTSC, PAL, or AUTO. Press **ENTER** to select and return to the sub-menu.

TV Type



When the TV TYPE option is highlighted, press the **►** button once and then use the **▲▼** buttons on the remote control to select between 4:3PS, 4:3LB, or 16:9. Press **ENTER** to select and return to the sub-menu.

Password



A password is required to change the Rating settings. When the **PASSWORD** option is highlighted, press ► button once to highlight the password entry box, enter the password (0000), and then press **ENTER**. The lock icon will change to an unlocked icon.

Default



This section of the Setup Menu allows the user to restore all controls and values to the default levels. When the **DEFAULT** option is highlighted, press the ► button once and then press **ENTER** to perform the restore (this will not affect the rating control setting).

OSD Language



The OSD Language sub-menu allows the user to select the language for the on-screen display. When the **OSD LANGUAGE** option is highlighted, press the ► button once and then use the ▲▼ buttons on the remote control to select the desired language. The user can select English, German, Spanish, French, or Portuguese for the OSD language. Press **ENTER** to select and return to the sub-menu.

Monitor B

Playing Audio Files



Insert an SD card or USB device into the unit and select the desired mode from the source menu using the front panel controls or the remote control.

Using a USB Device – Insert USB device into the USB port on the left side of the unit. When inserting a USB device, the top side of the device should face towards the front of the vehicle.

Using an SD card - Insert SD card into the SD card slot on the left side of the unit. When inserting an SD card, the label should face towards the front of the vehicle.

When an SD card or USB device containing audio files is inserted, audio playback will begin automatically.

Skipping Files

Press the **NEXT** button on the remote control to select to the next file. Press the **PREV** button to select the previous file.

Display

Press the **DISP** button on the remote control to display the track information and elapsed time.

Press the **DISP** button again to turn off the track/time information display.

Selecting Files

1. To select files when a file is playing, press the **▲▼** buttons on the remote control to select the desired file.
2. Once the desired file is highlighted, press the **ENTER** button on the remote control to select it.

Selecting Folders

1. To select folders when a file is playing, press the **◀** button on the remote control (cursor shifts to the left side of the screen) and then press the **▲▼** buttons to select the desired folder.
2. Once the desired folder is highlighted, press the **ENTER** button on the remote control to select it.

Intro Mode

You can choose to preview the first 10 seconds of each file. To access the intro mode, press the **INT** button on the remote control. The first 10 seconds of each file will play. Press **INT** again to cancel intro mode.

Repeat Modes

To access the repeat mode options, press the **RPT** button on the remote control. The repeat mode options are as follows:

Repeat All: Repeat the entire SD card or USB device contents (default).

Repeat Off: Playback stops after the SD card or USB device is played in its entirety.

Repeat One: Repeat the current file.

Repeat Directory: Repeat the current folder.

Random Mode

You can choose what order the files will be played. To access the random play mode, press the **RND** button on the remote control. The files will playback in random order. Press **RND** again to cancel random mode.

Monitor B

Playing Image Files



Insert an SD card or USB device into the unit and select the desired mode from the source menu using the front panel controls or the remote control.

Using a USB Device – Insert USB device into the USB port on the left side of the unit. When inserting a USB device, the top side of the device should face towards the front of the vehicle.

Using an SD card - Insert SD card into the SD card slot on the left side of the unit. When inserting an SD card, the label should face towards the front of the vehicle.

When an SD card or USB device containing image files is inserted, the file list screen appears automatically. Press the **PLAY** button on the remote control to start the slideshow.

Skipping Files

Press the **NEXT** button on the remote control to select to the next file. Press the **PREV** button to select the previous file.

Selecting Files

1. To select files during the slideshow, press the **STOP** button on the remote control to access the file list. Press the **▲▼** buttons on the remote control to select the desired file.
2. Once the desired file is highlighted, press the **ENTER** button on the remote control to select it.

Selecting Folders

1. To select folders during the slideshow, press the **STOP** button on the remote control to access the file list. Press the **◀** button on the remote control (cursor shifts to the left side of the screen) and then press the **▲▼** buttons to select the desired folder.
2. Once the desired folder is highlighted, press the **ENTER** button on the remote control to select it.

Repeat Modes

To access the repeat mode options, press the **RPT** button on the remote control. The repeat mode options are as follows:

Repeat All: Repeat the entire SD card or USB device contents (default).

Repeat Off: Playback stops after the SD card or USB device is played in its entirety.

Repeat One: Repeat the current file.

Repeat Directory: Repeat the current folder.

Random Mode

You can choose what order the files will be played. To access the random play mode, press the **RND** button on the remote control. The files will playback in random order. Press **RND** again to cancel random mode.

Rotating Images

During the slideshow, press the **▶** button on the remote control to rotate the image 90° clockwise. Press the **◀** button to rotate the image 90° counter-clockwise.

Inverting Images

During the slideshow, press the **▲** button on the remote control to invert the image (Up-Down).

Mirroring Images

During the slideshow, press the **▼** button on the remote control to mirror the image (Left-Right).

Monitor B

Playing Video Files



Insert an SD card or USB device into the unit and select the desired mode from the source menu using the front panel controls or the remote control.

Using a USB Device – Insert USB device into the USB port on the left side of the unit. When inserting a USB device, the top side of the device should face towards the front of the vehicle.

Using an SD card - Insert SD card into the SD card slot on the left side of the unit. When inserting an SD card, the label should face towards the front of the vehicle.

When an SD card or USB device containing video files is inserted, the file list screen appears automatically. Press the **PLAY** button on the remote control to begin playback.

Skipping Files

Press the **NEXT** button on the remote control to select to the next file. Press the **PREV** button to select the previous file.

Selecting Files

1. To select files during video playback, press the **STOP** button on the remote control to access the file list. Press the **▲▼** buttons on the remote control to select the desired file.
2. Once the desired file is highlighted, press the **ENTER** button on the remote control to select it.

Selecting Folders

1. To select folders during video playback, press the **STOP** button on the remote control to access the file list. Press the **◀** button on the remote control (cursor shifts to the left side of the screen) and then press the **▲▼** buttons to select the desired folder.
2. Once the desired folder is highlighted, press the **ENTER** button on the remote control to select it.

Repeat Modes

To access the repeat mode options, press the **RPT** button on the remote control. The repeat mode options are as follows:

Repeat All: Repeat the entire SD card or USB device contents (default).

Repeat Off: Playback stops after the SD card or USB device is played in its entirety.

Repeat One: Repeat the current file.

Repeat Directory: Repeat the current folder.

Monitor B

Charging a USB Device

Plug the USB cable (not supplied) into the USB port on the left side of the monitor and then connect the other end to the USB device.

Note: Depending on the device, it may or may not charge when connected to the USB port. Not all devices are able to charge when connected to the USB port.

Refer to the documentation that came with your USB device for more information.

Monitor B

Connecting an External A/V Source – 3.5mm

Connect the external source to the 3.5mm input port on the right side of the monitor labeled "AUX IN".

Note: Use the 3.5mm A/V cable made specifically for the device. An optional adapter (sold separately) may be used to convert the 3.5mm A/V input to standard RCA jacks.

Yellow: Video input
Red: Audio - right channel input
White: Audio - left channel input

Select the AUX mode from the source menu using the front panel controls or the remote control.

Monitor B

Connecting an External A/V Source – HDMI

Connect the external source to the mini HDMI input port on the left side of the monitor labeled "HDMI".

Select the HDMI mode from the source menu using the front panel controls or the remote control.

Selecting Monitor A as the Source

It is possible to select Monitor A as the source for Monitor B. This will allow all content that is playing on monitor A (except for an externally connected HDMI device) to be displayed on monitor B.

Select the MONITOR A mode from the source menu using the front panel controls or the remote control.

Troubleshooting

Symptom	Remedy
Monitor does not power on	<p>Is ignition switch turned to the on or ACC position?</p> <p>Are batteries installed in the remote control?</p> <p>Check the 5 amp fuse located in the Input Power Filter Assembly.</p>
Remote control does not function	<p>Verify that the batteries in the remote control are good.</p> <p>Verify that the remote sensor lens is not obstructed.</p>
Disc will not play	<p>Insert the disc with label side facing the rear of the vehicle.</p> <p>Check if the disc is defective by trying another disc.</p> <p>Check the type of disc being played. This unit only plays DVD (Single, Dual Layer), DVD-R/+R, DVD+R Dual layer, DVD-RW/+RW, CD, CD-R, and CD-RW.</p> <p>Both the unit and DVD discs are coded by region. If the region codes don't match, the DVD can't be played.</p>
Disc plays, but stops intermittently	<p>The disc is dirty and needs cleaning.</p> <p>Condensation has formed inside the unit. Remove the disc and allow unit to dry out.</p>
No picture	<p>Check that the signal source is connected.</p> <p>Check the menu source setting. Match your monitor mode with the source correctly.</p>
Distorted picture	<p>Check the disc for fingerprints and clean with a soft cloth, wiping from center to edge.</p>
Cannot advance through a DVD movie	<p>You cannot advance through the opening credits and warning information that appears at the beginning of DVDs because the disc is programmed to prohibit these actions.</p>
No sound or distorted sound	<p>Make sure that the external media device is connected properly, and all cables are securely inserted into the appropriate jacks.</p> <p>Verify that the batteries in the headphones are good.</p> <p>If you are using the wireless headphones, make sure you turn on the power and select the correct monitor (A or B).</p> <p>Is volume turned up on headphones?</p> <p>Is anything blocking the path between the monitor IR sensor and headphones?</p> <p>When placing the headphones on your head, make sure to observe the Left and Right orientation. The headphones must be oriented correctly (facing forward) in order to receive the audio signal.</p>
Monitor feels warm	<p>When the monitor is in use for a long period of time, the surface will be warm. This is normal.</p>
Player does not respond to all commands during playback	<p>Operations are not permitted by the DVD.</p> <p>Refer to the specific instructions included with the DVD for more information.</p>

Specifications

Dimensions	304(W) x 330(H) x 156(D) mm
Weight	4.53 Kg (Monitor A) 3.63 Kg (Monitor B)
Power Consumption (nominal)	Operation <19W @ 13.5VDC
LCD Backlight	LED
Resolution	800x3(RGB) x480 TFT LCD Panel
Luminance	550cd/m2 (typ.)
DVD (Monitor A)	Slot-In Loader
Supported Disc (Monitor A)	DVD (Single, Dual Layer), DVD-R/+R, DVD+R Dual layer, DVD-RW/+RW, CD, CD-R, CD-RW
Operation Temperature/Humidity	-20°C~70°C
Expected Backlight Life	30,000 hours
Video Display System	NTSC/PAL
Supply Input Voltage	10V~16V DC
Maximum Input Current	1.36A (Vin = 13.5V DC)
Frequency Response	20Hz ~20KHz
I/O Ports	3.5mm Headphone Jack, 3.5mm A/V IN, SD card, USB port, mini HDMI
Headphone (Audio Out)	Output Level: 2Vpp (input 0dB 1KHz)
HDMI Compliant	Version 1.4
Wireless Audio	Dual channel infrared audio transmitter, supports stereo headphone operation (reception: 0.9 m; 80°, 1.8 m; 50°)
IR Channels	Channels A: 2.3/2.8 MHz B: 3.2/3.8 MHz

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.



ITE Notice

This Class B digital apparatus complies with Canadian ICES-003.

Cet Appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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 method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Dolby Digital

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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") or remainder of original factory warranty whichever is greater 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.



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