Owner's Manual

Armrest Video Monitor with Built-in DVD

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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 armrest video monitor should never be installed where it will be visible, directly or indirectly, by the operator of the motor vehicle.

Safety Precaution

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

Features

- ◆ 7 inch TFT-LCD with 16:9 aspect

- ◆ Built in slot Loading DVD loader

- ◆ Infrared transmitters for wireless headphones

- ◆ AV source(Input)- 3 RCA jacks

- ◆ USB Port

- ◆ Stereo Earphone Jacks (2)

- ◆ Remote Sensor on the Front Panel

- ◆ 7 Control Buttons plus navigation buttons on the Front Panel --- POWER, SOURCE, EJECT, STOP, PAUSE, AND PLAY.

- ◆ OSD(On Screen Display) Control

- ◆ 12V DC Power Input

- ◆ FM Transmitter (may be optional)

Screen Rotation Instructions

Step 1: Lift the screen up to vertical (the maximum angle is 80^0. See Figure 1)
Step 2: Rotate the screen clockwise 180 degrees (screen will lock in position via detents)
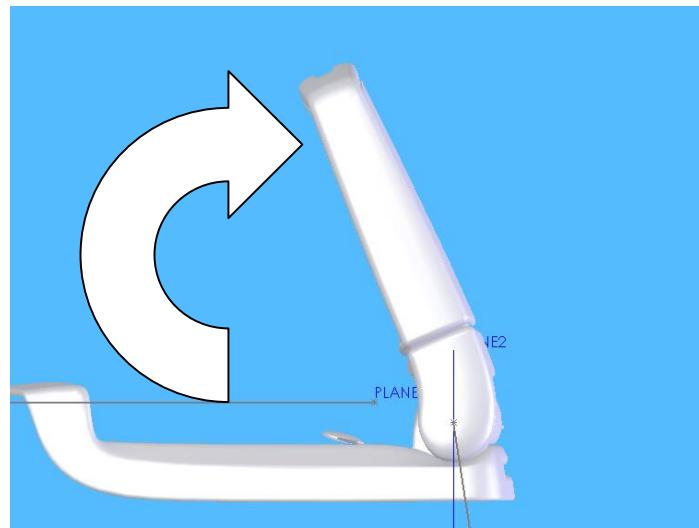
Figure 1
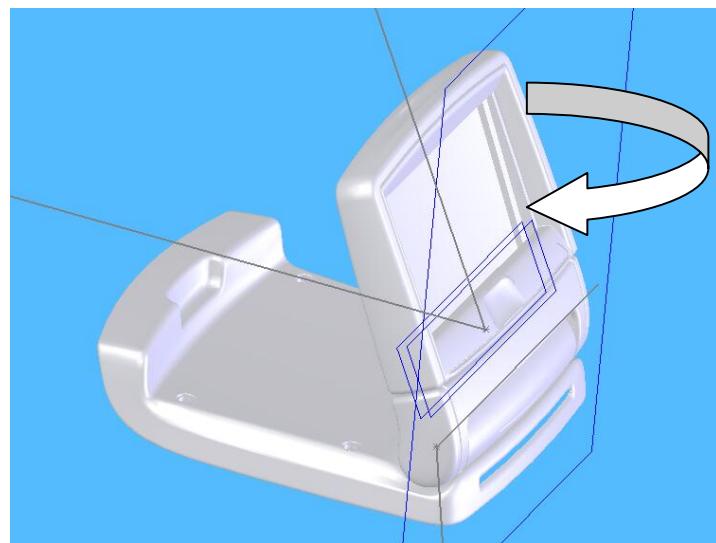
Figure 2

Control Buttons on Front Panel

Function Descriptions

1. Power Key: Press to power the system on or off
2. Source Key: Press to change the video source (DVD, AUX)
3. Eject Key: Press to eject disc.
4. Stop: Press to stop the Disc playing.
5. Pause: Press button to pause the disc.
6. Play: Press to play the disc.
7. Menu/Select: press to display the menu and select picture setting options.
8. Navigation button: press to navigate UP/DOWN/LEFT/RIGHT through menu selections.

Input, Output Connections

Connection Descriptions

1. 3.5mm headphone output jacks
2. AUX AV input jacks (RCA type)
3. USB connection (automatically plays while in DVD mode)

Remote Control Operation

Battery Installation Diagram

AAA
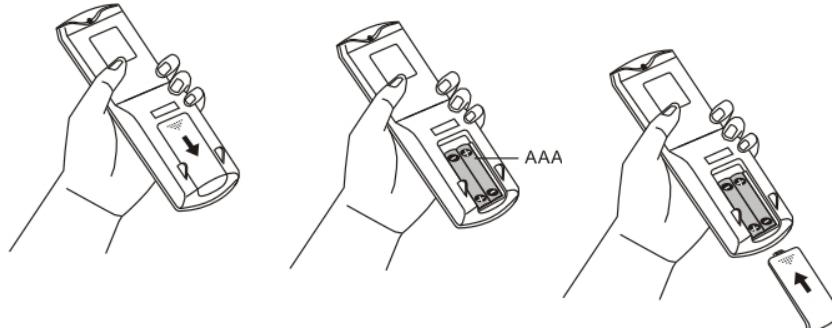
Battery Installation Instructions

Before operating 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 (2) "AAA" batteries as shown. Make sure that proper polarity (+ or -) is observed.

3. Slide the cover back until it clicks.

The remote control will operate the armrest console only. It is not a universal remote control and will not control equipment from any other manufacturers.

Remote Control Function Descriptions

1. POWER
  Press this button to turn the unit ON. The current video source will be displayed on screen, and the picture will appear in a few seconds. Press the button again to turn the unit OFF

 2. SOURCE
  Any video equipment connected to the AV inputs can be used with the monitor by pressing this button. Each time the button is pressed, the AV source will change in the following sequence DVD, AV.

 3. EJECT
  No function

 4. SETUP
  Navigate DVD SETUP MENU, These are 4 pages to configure system:
   (1) General Setup page
   (2) Audio Setup Page
   (3) Preference Page
   (4) Password Setup Page

 5. Menu
  Go to Root Menu included in the disc

 6. Return
  Return to previous menu screen or playing point

 7. UP
  Use this button to scroll OSD menu upwards.

 8. RIGHT
  Use this button to scroll OSD menu to Right.

 9. LEFT
  Use this button to scroll OSD menu to Left.

 10. DOWN
  Use this button to scroll OSD menu downwards.

 11. ENTER
  Make a selection or begin the disc playing

 12. PLAY/PAUSE
  Press this button to play or pause a movie while disc is loaded into the disc compartment. For more information, consult the DVD basics section

 13. STOP
  Stop playing the movie or songs
  STOP : Play: resume playing from point disc was stopped at.
  STOP : STOP : Play: Starts playing from beginning of disc.
 14. PREV
  Play the previous chapter or track.

15. NEXT
Play the next chapter or track.

16. FF(Fast Forward)
Press button to search disc forward continuously. There are 5 speed options to choose: 2X, 4X,8X,16X, and 32X.

17. FR(Fast Rewind)
Press button to search disc backward continuously. There are 5 speed options to choose like FF (Fast Forward) is.

18. REPEAT(Except VCD with PBC on)
Repeats part or all of a chapter, title, track, or an entire disc.

19. A-B(Except MP3)
Repeat from point A to point B.

20. GOTO
Navigate the Goto Menu and go to the desired title, chapter, track or song inside the disc.

21. TITLE
Navigate the Title Menu included in the disc.

22. SUBTITLE
Change the subtitle language to another available language or set off (only if the disc contains Multiple subtitle languages).

23. ANGLE
View with a different camera angle(This button takes effect only on the DVD that supports frames with multiple angles).

24. AUDIO
Change the audio language to another available language(only if   the disc contains multiple audio languages).

25. DISPLAY
Show information on the left-up corner on the screen including Title, chapter/track, time elapsed, and time remained, or turn off the display.

26. PROGRAM
Edit a playback program containing desired titles in the DVD or tracks in the CD-DA

27. RANDOM
Plays titles randomly

28. 3D
Control virtual 3D sound effect. The options are off, Rock, Pop, Live, Dance, Techno, Classic and soft

29. ZOOM
    (1) Enlarge the picture in the movie by 2x, 3x and 4x.
    (2) Shrink the picture in the movie by 1/2x,1/3x, and 1/4x.

30. PBC (Video CD only)
Turn the PBC (Play Back Control) on or off.

31. NUMBERS
(1) Decimal number: 0 to 9
(2)+100: Add 100

32. AUTO MEMORY (If TV mode is available)
When the AUTO MEMORY button is pressed, all channels in TV mode are searched and tuned ; all the channels with signals detected are automatically stored.

33. ERASE/ADD (If TV mode is available)
When tuned to a channel, press this button to store or erase the channel from memory. The stored channel numbers are displayed in green on the screen, and the non-stored channel numbers are in red. When the SKIP mode is on, the unit will be tuned to only the stored channels when using the UP/DOWN buttons.

34. SKIP/SEARCH (If TV mode is available)
This button selects between SKIP and SEARCH modes. In SKIP mode, the TV only stops on channels that are programmed into memory when the UP/DOWN buttons are used. When the SKIP mode is off, TV will stop on all active channels.

35. R-S (If TV mode is available)
This button selects between Air TV and CATV modes.

36. SOUND AROUND SELECT(If fm transmitter is available)
Select a FM transmitter channel. See Accessory Instruction section for detailed channel info.

37. SOUND AROUND ON/OFF (If fm transmitter is available)
Turns FM Transmitter power ON/OFF.

38. MUTE (For DVD only)
Press this button to shut off the sound at the headphone station. The screen will display that the sound has been turned off. Pressing the button again restores sound to the previously set Level.

39. PIX (Picture Selection)
Each time this button is pressed, the picture adjustment OSD cycles through bars for BRIGHTNESS, CONTRAST, COLOR, and TINT. Once the desired adjustment bar is displayed, use the RIGHT/LEFT button to adjust the setting. The bar display will automatically disappear, if no adjustments are made with in 6 seconds or if any other button is pressed.

40. TV –Not applicable

41. DVD – Depress for using remote to control armrest video console.
Transmit IR codes for DVD/AV mode of armrest video monitor (this mode is used for controlling all functions, except tv mode (if available)

General Operating Instruction
Turning the unit ON or OFF

1. Pivot/rotate the screen until a comfortable viewing angle is reached. The internal friction detent will hold the screen in position while the system is in use.

2. Pressing the **POWER** button on the left-button corner of the front panel or the remote will turn the system on or off alternately. When in use, the internal backlighting will illuminate the buttons.

3. The unit will also power on when a disc is inserted into the slot.

4. **Remember** to turn the unit off and pivot the LCD to the locked position when not in use.

Remote Sensor

The unit has an integrated infrared signal which relays signals from the remote control by simply pointing the remote control at the remote sensor eye (located at the top of the monitor) and depressing the remote control buttons.

Accessory Instructions

Wireless Headphones

The unit includes a built-in single channel infrared transmitter for use with wireless IR headphones. The volume can be adjusted with the control on each headset. 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. The IR transmitters are located just above the top of the LCD screen.

Wired Headphone

There are two 1/8" (3.5mm) headphone jacks on the unit that can be used with any standard stereo headphones (not included) Rotate the plastic cover to access the jacks. Remember to close the cover when the jacks are not in use.

Wireless FM Transmitter (may be optional)

Your video system may be equipped with an RF transmitter, which allows you to listen to the audio signal through your vehicle's radio to the selected frequency, (odd: 88.3,88.7,89.1,89.5,89.9,90.3,Mhz (when odd stations are enabled) even: 88.4,88.8,89.2,89.6,90.0,90.4 Mhz (when even stations enabled) When the transmitter is turned on, it may interfere with normal radio station listening. In this case you must turn off the transmitter.

AUX AV Input

An additional AV input may be connected to this unit such as video game system, or other AV source. To play the 2nd AV source, turn the unit on and press the SOURCE button on the remote control until " AV " is displayed on the screen. Turn the source component on with its power button or remote control. The system is now ready to play the audio and video signals from the source connected to "AV INPUT" port on front panel. Rotate the plastic cover to access the jacks. Remember to close the cover when the jacks are not in use.

Please note : " AV INPUT " source input is exposed for the user to be able to temporarily connect additional AV source, such as games, camcorders, etc.. See page 7 for further description of the "AV INPUT" location.

USB Input

A USB device may be operated by first connecting the device with the USB connection on the unit. The USB device can be played by selecting "DVD" as the video source. The USB device will automatically start up upon connection, thereby overriding the DVD disc. Disconnect the USB device to play discs. Rotate the plastic cover to access the USB connection. Remember to close the cover when the USB Jack is not in use.

DVD Basics

To get the optimum use out of 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 don't match, the disc won't play. This units code is set to the region it
is being shipped to. By default, other regional codes cannot be played in this unit.

Types of Discs Your DVD Player Will Play

DVD-Video: 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 (computer data/software), DVD-ROM (computer data/software)
Mini disc
    CDG (audio only, not graphics).

Loading and Playing a Disc

When you press the **POWER** button the unit is on and in DVD mode. Load the disc by inserting
label side facing up and insert into the dvd slot. The unit will pull the disc in and load automatically.
Press the play button to begin playing the disc.

Settings and Adjustments

This chapter describes how to adjust settings using the on-screen setup pages included in the SETUP MENU.

Using the Setup Menu

Using the setup menu, you can do the initial setup, adjust the picture quality, and set the various output. You can also set a language for the on-screen display and the setup display, and limit playback by children.

(1) Press the SETUP button to display the icons and pages on the display screen.

(2) Select the desired page you want by using ◄ ► button to move the cursor.
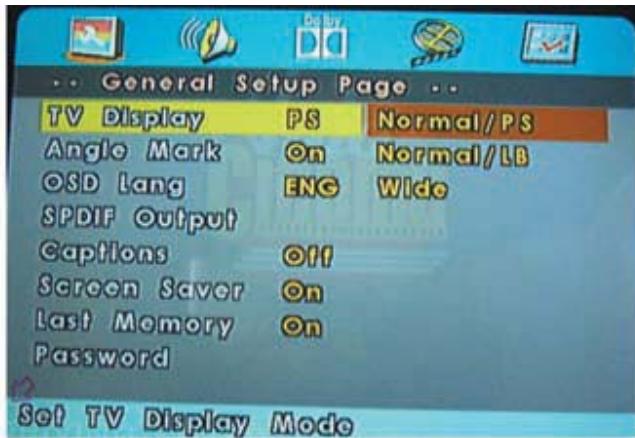
To Cancel the Setup Display

Press the **SETUP** button on the remote.

## Setting the Language for On-Screen Display

Press the **SETUP** button, use the buttons ◄ ► to navigate to the General Setup Page, and then use the ▼ button to select OSD Language

OSD (On Screen Display) Language Menu

The OSD Lang sub-menu allows the user to select the language for the on-screen display. Press ► and then use the buttons ▲▼ to select the desired language. The user can select English, French, Spanish, German, Chinese, and Japanese for the OSD language.

Settings for Display

Press the **SETUP** button, use ◄► buttons to navigate to the General Setup Page, and then the ▼ button to select TV Display sub-menu. The setup allows you to adjust screen setting (aspect ratio). Press ► and then use the buttons ▲▼ to select the appropriate setting. The options are as follows:
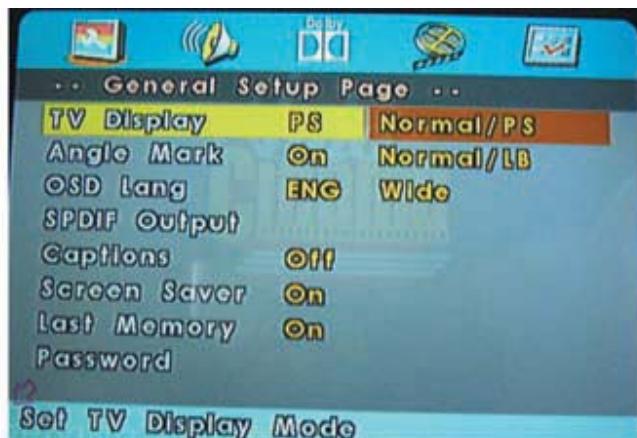
Normal/PS (Pan and Scan)

This displays the wide picture on the screen with a portion of the left & right sides removed
.

Normal/LB (Letter-Box)

This display the wide picture with black bands on the upper and lower portions of the screen.

Wide (16:9)

This option is chosen if the LCD panel is of wide screen.
Then press **ENTER** to confirm the screen.

Default Settings

Press the SETUP button, and use buttons ◄► and ► to go to the Default sub-menu under preference Page. The default setup allows you to reset all options to factory defaults. Press ► and then press **ENTER** to carryout the reset.

Note: This function will not affect the parental setting.

Settings for Parental (Parental Control)

(Accessible only when no disc is loaded)

This section of the SETUP MENU allows users to control the content of movie playback from

G to **ADULT**. The parental control function allows you to limit viewing to your preference.

1. After navigating to the Parental sub-menu under Preference Page, use the▼▲ buttons to select from:

   KID SAF (Children)

   G

   PG

   PG 13

   PGR

   R

   NC-17

   ADULT

Note: The lower the value, the more strict the limitation.

2. Press the ENTER button to confirm the selection.

3. Input a password in 6 digits using the numeric buttons then press the ENTER button.

Note: The default password is 136900.

Settings for Password (Parental Control Password)
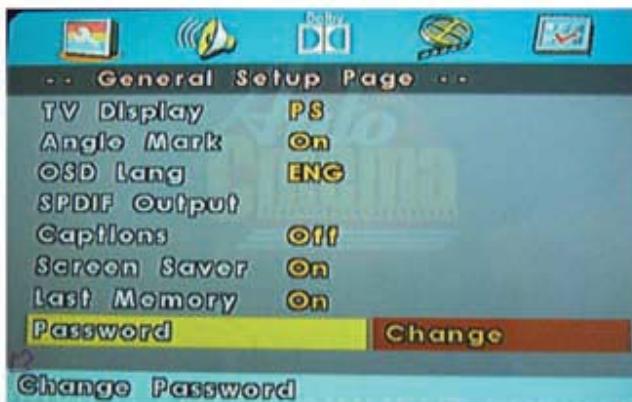
(With no disc loaded)

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

Press ▶ and then press **ENTER**.

OLD PASSWORD

Input the old password or the default password (6 digits).

NEW PASSWORD

Input a new password (6 digits) using numeric buttons.

CONFIRM PWD

Confirm the new password by entering the same new password again.

Then navigate to the **OK** button and press **ENTER** to implement it.

Playing an Audio CD

When playing an audio CD, the DISPLAY banner appears automatically. It displays the current track and the amount of the time for that track playing, the total amount of time on the disc and the current time running on the disc. Press the **DISPLAY** button on the remote 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 the **REPEAT** button consecutively changes the REPEAT options as follows:

> **Track** -repeats the track that is playing
> **All** -repeats the disc that is playing

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

Playing an MP3 Disc

MP3 is the 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/RW discs that have been encoded in MP3 format can be played on your DVD player.

Selecting Folders and Songs

When a 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 order they were burned onto the disc.

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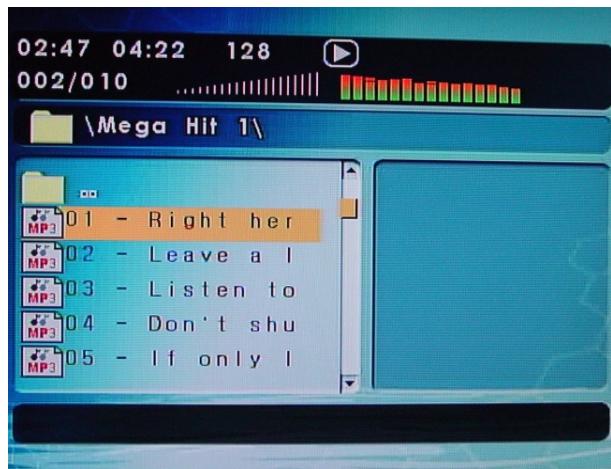
Skipping Songs

Use the **NEXT** (⏭) button on the remote control to move to the next page of songs. Use the **PREV** (⏮) button to move to the beginning of the song that is currently playing. Press the button 2 times to move to the previous page of songs.

Selecting a Play Mode

You can choose what order the songs will temporarily play on a disc. The FOLDER play mode is the default. To access the play mode options, press **REPEAT** button.

The play mode options are as follows:
● *Single*: Plays a selected song
● *Folder*: Plays the folder in the order the songs were recorded

Using the REPEAT Feature

The default mode for the repeat feature is OFF. Pressing **REPEAT** consecutively changes the repeat option:

· *Repeat One* -Repeats the songs that are playing
· *Repeats Folder* -Repeats the folder that is playing

Connecting a USB Device

You can connect a USB mass storage class device such as a USB memory stick, digital audio player, etc. to the USB port.

Selecting Folders and Songs

When a USB device is connected to the port, the navigation screen appears automatically unless the contained file has auto play; such as a movie. Then you must hit stop on the remote to open the navigation menu. You can change folders and files by navigating the menu.

1. If a file is playing, press **STOP**. Press the **UP** or **DOWN** arrow button to go through the folder list on the left side of the navigation screen.
2. Once the folder you want is highlighted, press **ENTER**.
3. Press the **UP** or **Down** arrow button to go through the file list and highlight the file you want. Press **Enter** to select the highlighted file.
4. If a picture file is selected you may hit the **STOP** button on the remote to show the thumbnails and options list. A thumbnail may be selected and viewed full screen or select on the following: Slideshow: displays thumbnails full screen size at Random. Menu: displays a list of picture funtions. Or you may choose the previous or next option which allows you to view the previous or next thumbnail.

Warnings

✧ Do not use any solvents or cleaning materials when cleaning the video system.
✧ Do not use any abrasive cleaners, they may scratch the screen. Use only a lightly dampened lint free cloth to wipe the screen if it is dirty.
✧ Close the LCD screen in the fully closed position when not in use.
✧ Before putting on headphones always adjust the volume setting to the lowest position.
✧ Do not put pressure on the screen.
✧ Caution children to avoid touching or scratching the screen, as it may become dirty or damaged.

Trouble Shooting

(Q1) IR Sensor Inoperative
(1) Verify that the batteries in the remote are fresh.
(2) Verify that the remote sensor eye is not obstructed.
(3) Aim toward sensor, near top of monitor.
(4) Select on the remote control "DVD" to control the armrest console
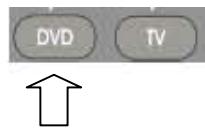
(Q2) No Picture
(1) Verify that the correct video source mode is used on the monitor (DVD/AUX AV).
(2) Verify that the video cable is plugged into the jack securely (if the a/v inputs are being used)

(Q3) No Sound
(1) Verify that the correct audio input mode is used on the monitor.
(2) Verify that the audio cable is plugged into jack securely (if the a/v inputs are being used).

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Specifications	
LCD Backlighting	LED
Resolution	480 (RGB) x 234
Operation Temperature	-20 to 70C
Storage Temperature	-40 to 85C
Expected Backlight life	20,000Hours
Video Display System	NTSC
Audio Output	0.5W@16s
Operating Voltage	10 to 16VDC

Notices

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.

This device complies with Part 15of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning

To assure continued FCC compliance, the user must use the provided grounded power supply cord and the shielded video interface cable, which may have bonded ferrite cores. Any unauthorized change or modifications to this device could 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)
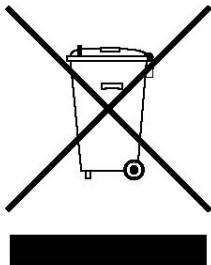
This symbol on the product or on its packaging indicates that device shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this device is disposed of correctly, you will help prevent 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.

Dolby Stereo Compatibility

When using this unit with a multi-channel processor, you can enjoy the atmosphere and excitement provided by DVD movie and music software featuring stereo 2-channel recordings. Manufactured under license from Dolby Laboratories. "Dolby" and double-D symbol are trademarks of Dolby Laboratories

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.

Notes