



# XDVD8285

## INSTALLATION/OWNER'S MANUAL

DVD Multimedia Receiver with 6.5" Touch Screen Display



### Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

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## **XDVD8285 PREPARATION**

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### **⚠ WARNING ⚠**

**Upon installation of this Monitor/DVD player (“unit”) into a vehicle, the driver of the vehicle must not operate this unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle’s occupants or persons outside the vehicle and/or property damage.**

**Several states prohibit the installation of monitors/DVD players if the screen is visible from the driver’s seat. If you reside in a jurisdiction which has enacted such a law, this unit must not be installed so that the screen is visible from the driver’s seat. When installing this unit in the front console/dashboard, the unit must be positioned so that it is facing the front passenger seat only. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle’s occupants or persons outside the vehicle and/or property damage.**

**This unit is designed so that it may be operated only when the vehicle is in “Park” and the parking brake is fully engaged. To this end, this unit includes a parking brake lock-out feature which prohibits the unit from operating if the vehicle is not in “Park” and/or the parking brake is not fully engaged. When installing this unit, the installer must connect the parking brake detect wire (“Yellow-Blue Lead”) to the parking brake mechanism in order to make the parking brake lock-out feature operable. DO NOT simply ground the parking brake detect wire to a metal portion of the vehicle. Failure to properly install the parking brake lock-out feature could lead to driver distraction which could result in serious injury or death to the driver’s occupants or persons outside the vehicle and/or property damage.**

**Once the parking brake lock-out feature is installed, the owner/user must not attempt to disrupt/neutralize the parking brake lock-out feature by (a) partially engaging the parking brake and/or (b) purchasing/using any device or unit designed to send necessary brake signals to the unit. Failure to follow these instructions could lead to driver distraction which could result in serious injury or death to the driver’s occupants or persons outside the vehicle and/or property damage.**

**When operating this unit, keep the unit’s volume level low enough so that the vehicle’s occupants can hear traffic-related sounds such as police and emergency vehicles. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle’s occupants or persons outside the vehicle and/or property damage.**

## Safety Information

**Please read all instructions carefully before attempting to install or operate.**

Due to its technical nature, it is highly recommended that your DUAL XDVD8285 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

### **Safety Notes:**

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

### **To prevent damage or injury:**

1. Make sure to ground the unit securely to the vehicle chassis ground.
2. Do not remove the top or bottom covers of the unit.
3. Do not install the unit in a spot exposed to direct sunlight or excessive heat or the possibility of water splashing.
4. Do not subject the unit to excessive shock.
5. When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause the unit to malfunction.
6. To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
7. Use only the provided hardware and wire harness.
8. You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
9. If you experience problems during installation, consult your nearest DUAL dealer.
10. If the unit malfunctions, reset the unit as described on page 11 first. If the problem still persists, consult your nearest DUAL dealer or call tech assistance @ 1-866-382-5476.
11. To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth, or volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the printing.
12. When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.

### **Additional Notes:**

1. When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm (AWG 18) or more to prevent voltage drops.
2. Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

This device complies with part 15 of the FCC rules and regulations.

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.

## Preparation

Please read entire manual before installation.

### Before You Start

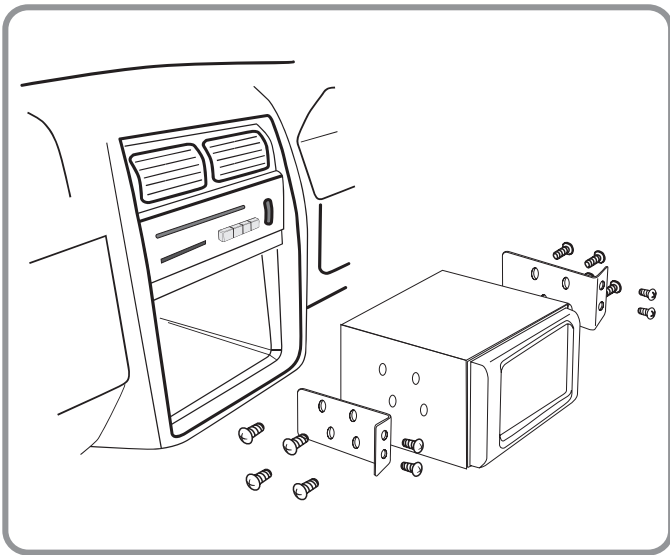
- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

### Getting Started

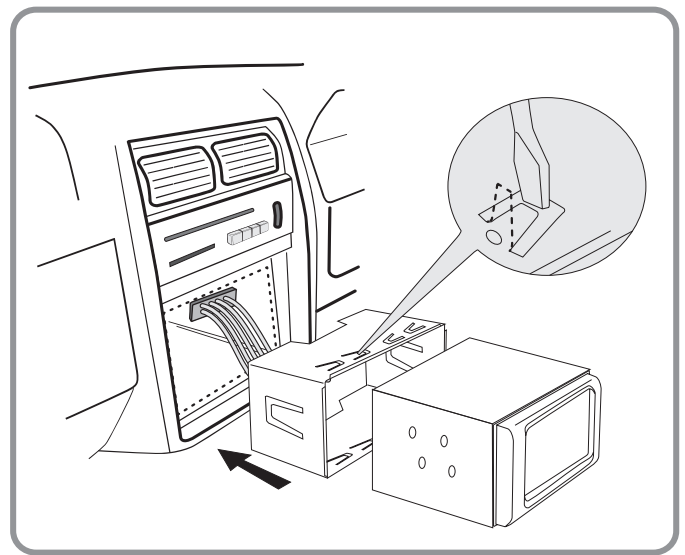
- Insert the supplied keys between the radio and the sleeve at the left and right sides, and slide the unit out of the mounting sleeve.

### Mounting Options

1. Rear ISO-DIN (using OEM factory radio mounting brackets):
  - Remove factory radio mounting brackets and attach to the left and right sides of the XDVD8285 chassis.
  - See diagram below.
2. Front load (using mounting sleeve):
  - Install mounting sleeve into opening, bending tabs to secure.
  - Connect wiring harness and antenna as shown on pages 6-7. Consult a qualified technician if you are unsure.
  - Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
  - Test for correct operation and mount according your application.
  - If required, snap desired trim ring into place.
  - Mount the iplug™ adapter to any smooth clean surface using the supplied double-sided tape or Phillips head screws.

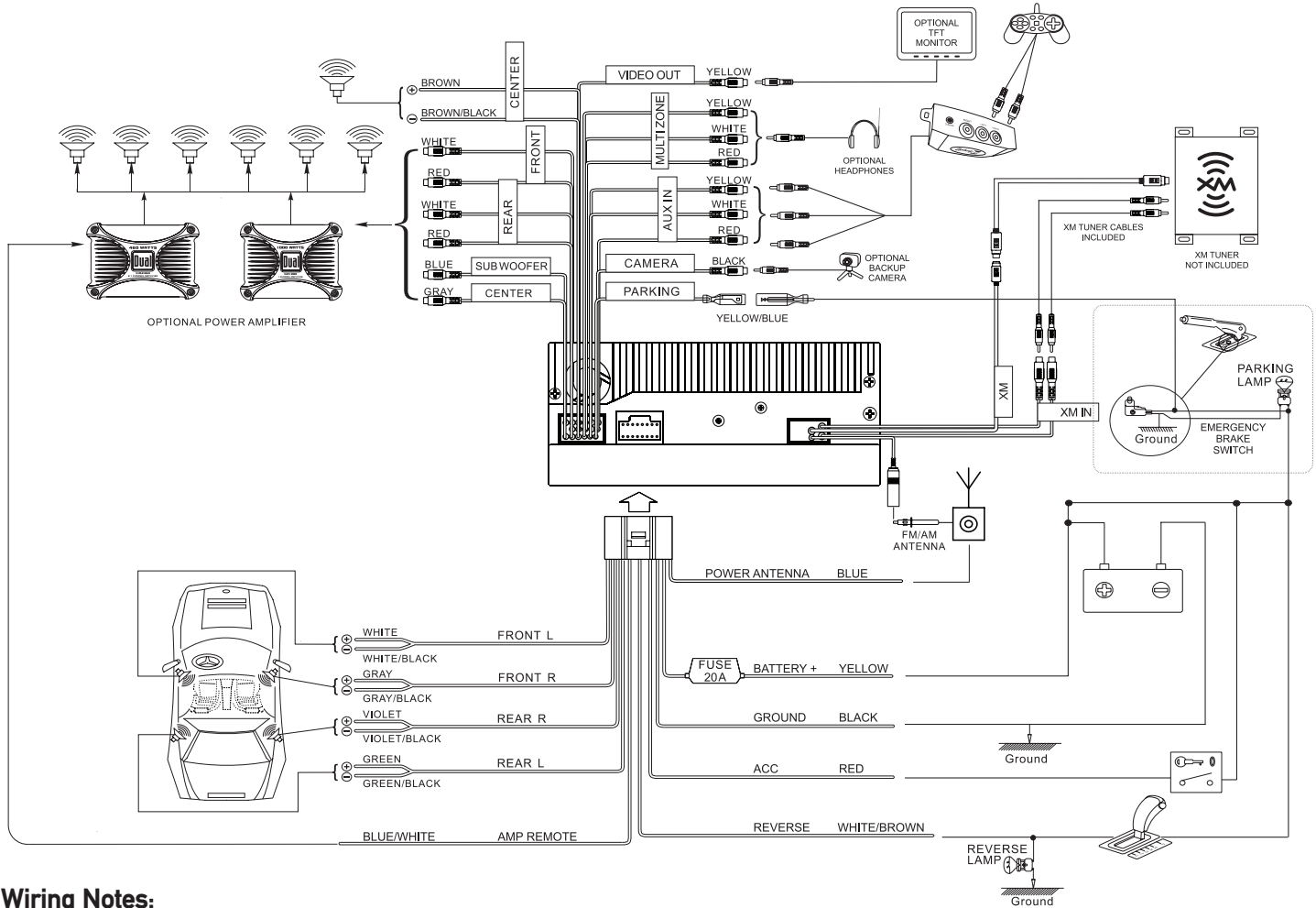


**Mounting the XDVD8285 using OEM factory mounting brackets.**



**Mounting the XDVD8285 using mounting sleeve (front load).**

# Expanded Wiring Diagram - Inputs/Outputs



**Wiring Notes:**

**Subwoofer output**

The **SUBWOOFER** audio output (Blue RCA) is active in all audio modes and must be connected to an external amplifier.

**Center output**

The **CENTER** audio output (Gray RCA) is only active in DVD 5.1 and Dolby Pro Logic II audio modes and must be connected to an external amplifier.

**Rear view camera**

A rear view camera (not included) can be used with the **CAMERA** input.

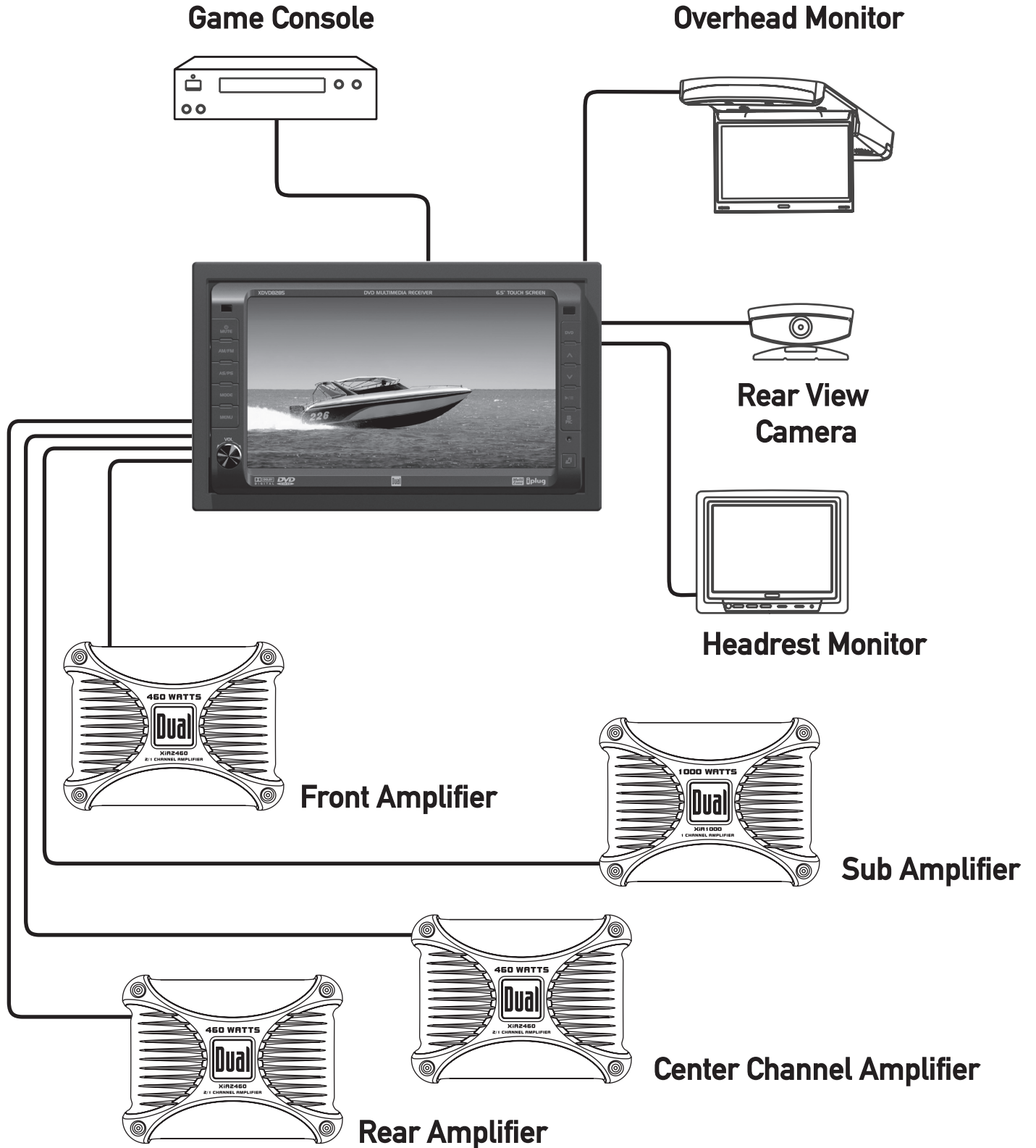
**NEED HELP??**

Call our Technical Service Hotline, 1-866-382-5476.

**Safety Notes:**

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Altering or defeating this safety feature is a violation of law and is prohibited.

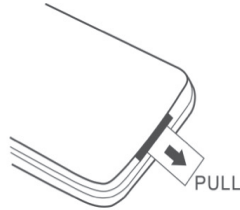
# Wiring Diagram - Optional A/V Connections





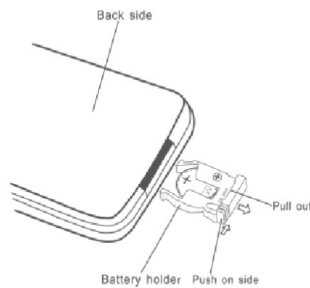
# IR Remote Preparation

To first use the IR Remote control, you must first pull the battery insulation tape out

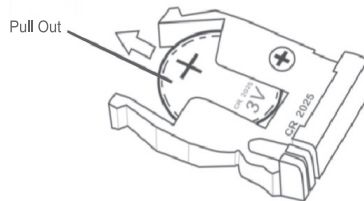


Insert or replacing the Battery:

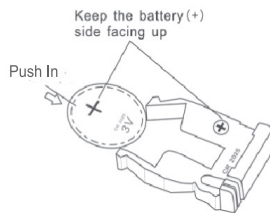
Remove the battery holder



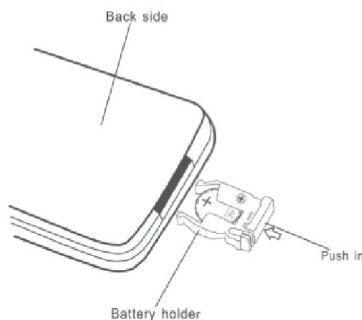
Remove the battery from the battery holder



Install the new battery  
Make sure to keep the (+) side up



Insert the battery holder



Notes:

- Remove the battery if the remote will not be used for a month or longer
- Remove and dispose of battery properly



Main Remote



Multi-zone Remote

**CAUTION!!!**

- Do not store battery with metallic objects or materials

## Control Locations - Monitor Closed






- |                          |                                   |
|--------------------------|-----------------------------------|
| ① Power/Mute             | ⑧ Channel/Chapter/Track Up        |
| ② AM/FM Mode - Hotkey    | ⑨ Channel/Chapter/Track Down      |
| ③ Auto Store/Preset Scan | ⑩ Play/Pause                      |
| ④ Mode                   | ⑪ Info/Picture                    |
| ⑤ Menu                   | ⑫ Reset                           |
| ⑥ Rotary Encoder/Enter   | ⑬ Open/Close Monitor/Angle Adjust |
| ⑦ DVD Mode - Hotkey      | ⑭ Microphone                      |










### Monitor Notes:

- This model incorporates a motorized moving monitor. Before final installation, make sure the monitor will not obstruct the dash, shifter or any other controls.
- Upon installation, do not attempt to move the monitor by hand. Use the button on the front panel only or the **OPEN** button on the remote control.
- The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press or **OPEN** again to resume the monitor open/close sequence.

## Control Functions - Monitor Closed


<b>Power On/Off</b> <b>Mute</b>	Press  to turn the unit on. Hold for 3 seconds to turn the unit off. Press <b>MUTE</b> to silence the audio;  00 will appear in the OSD (On Screen Display). Press <b>MUTE</b> again to cancel.
<b>AM/FM Mode - Hotkey</b>	Press <b>AM/FM</b> to select radio tuner mode. If the unit is already in tuner mode, press <b>AM/FM</b> to select between FM1, FM2, FM3, and AM bands.
<b>AS/PS</b>	Press <b>AS/PS</b> momentarily to start station <b>PRESET SCAN</b> function. Press <b>AS/PS</b> for 2 seconds to start <b>AUTO STORE</b> station preset function in current <b>BAND</b> .
<b>Mode</b>	Press <b>MODE</b> to select between the unit's available modes, such as: Tuner, DVD (which includes CD and MP3/WMA playback), Aux AV in, SD, XM, and Camera inputs. Each time the <b>MODE</b> button is pressed the next mode is chosen. Modes of operation are indicated on the OSD. Hold the <b>MODE</b> button for 3 seconds to toggle the <b>Multi-Zone</b> feature on and off. Please read the <b>Multi-Zone</b> section of the manual on page 85 for a full explanation.
<b>Menu</b>	Press <b>MENU</b> to display the main menu, along with the setup sub-menus. Press <b>MENU</b> again to return to the current mode.
<b>Rapid Dial Rotary Encoder</b>	Press to toggle between the Volume and Select functions. When idle, push and hold for 3 seconds to enter the Audio Setup Menu.
<b>Volume</b>	Normally, the rotary controls the volume, which is visible as a number from 0 to 40, to the right of the volume icon  displayed on the screen. When the icon is not displayed, turn the rotary to display the volume level. Turning the rotary while the volume is muted will cancel the mute function.
<b>Select</b>	<p><b>Note:</b> To program the default volume level when the unit is turned on: turn the rotary to the desired level, then push and hold the rotary for 3 seconds to program the current volume level.</p> Turning the rotary while it's in select mode will allow you to perform various functions and settings depending on the mode/screen displayed. Generally, turning the rotary will let you move through the choices and pushing the rotary will select the highlighted choice.
<b>DVD Mode - Hotkey</b>	Press <b>DVD</b> to select Disc mode.
	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Depending on the type of disc loaded, the Disc mode can be CD, MP3/WMA or DVD.</li> <li>• This button is not active when there is no disc loaded.</li> </ul>

## Control Functions - Monitor Closed

Up Arrow	<p>This button performs different functions depending on the current mode. A detailed description of the  button can be found in each individual section.</p>
Down Arrow	<p>This button performs different functions depending on the current mode. A detailed description of the  button can be found in each individual section.</p>
Play/Pause	<p>Press  to pause or continue playback of an audio or video track.</p> <p><b>Note:</b> This button is only active in Disc and SD modes.</p>
Info/Picture	<p>Press to display DVD disc information in DVD mode. Holding this button for 3 seconds brings up the Brightness setting, which can be controlled by the rotary encoder or by pressing the / buttons on the main remote control.</p>
Monitor Open/Close Angle Position	<p>Press  momentarily to toggle between fully open and the current angle. Hold  for more than 1 second to adjust the view angle up and down and release to keep desired viewing angle.</p>
Reset	<p>If you experience abnormal operation or, your unit is inoperable, press the <b>RESET</b> button located on the front bottom-right corner of the unit. After a system reset, the unit resets the main processor (but not the default settings).</p> <p><b>Notes:</b> Use the tip of a pen to access the reset button. To restore the factory default settings, refer to page 21.</p> <p><b>Monitor Notes:</b></p> <ul style="list-style-type: none"> <li>• The angle can also be manually selected via the screen setup menu.</li> <li>• The color of the LCD monitor varies between viewing angles. Select the angle with the most optimum view for your location.</li> <li>• The last position of the monitor can be saved in memory. When “TFT Auto Open” is selected in the General Setup Menu, the monitor will return to its last position automatically the next time the unit is turned on.</li> </ul>
Caution	<ul style="list-style-type: none"> <li>• Due to its highly technological design, the XDVD8285 faceplate is <b>NOT</b> removable. Do not attempt to remove the faceplate.</li> <li>• Upon installation, do not attempt to move the monitor by hand. Use the  button on the front panel only or the <b>OPEN</b> button on the remote control.</li> <li>• The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press  or <b>OPEN</b> again to resume the monitor open/close sequence.</li> </ul>

## Control Locations and Functions - Monitor Open

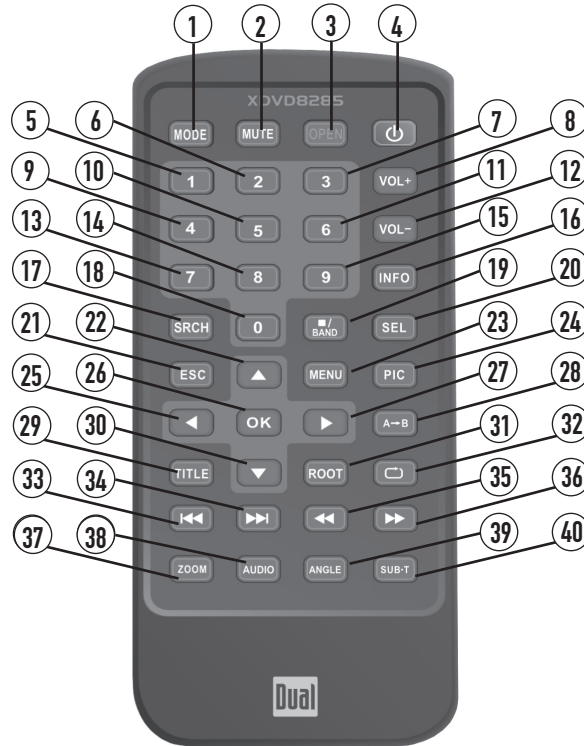


- ① Disc slot
- ② SD card slot
- ③ Disc-in indicator  
Red = Disc inserted  
Blue = No disc inserted
- ④ When the panel is fully open, press  to eject the disc.

### Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

## Control Locations - Main Remote



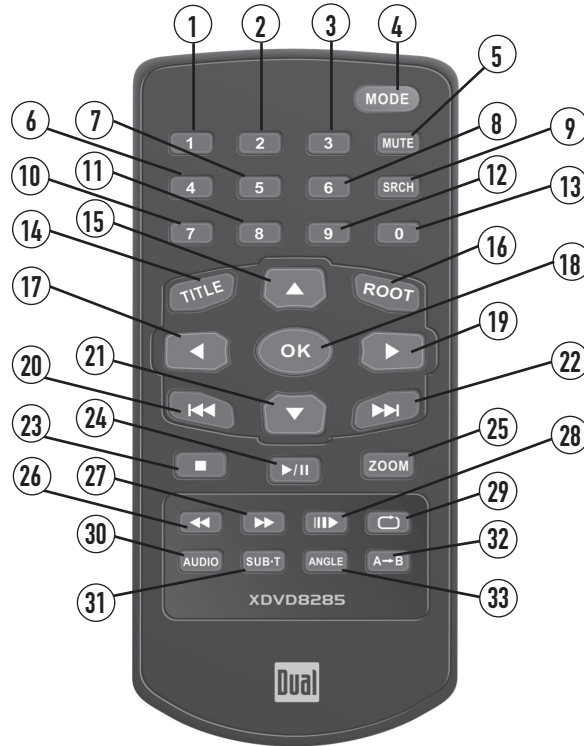
- |              |               |                                  |
|--------------|---------------|----------------------------------|
| ① Mode       | ⑩ Key #5      | ⑲ Band/Stop                      |
| ② Mute       | ⑪ Key #6      | ⑳ Audio Select                   |
| ③ Open/Close | ⑫ Volume Down | ㉑ Escape                         |
| ④ Power      | ⑬ Key #7      | ㉒ 4-Way - Up                     |
| ⑤ Key #1     | ⑭ Key #8      | ㉓ Menu                           |
| ⑥ Key #2     | ⑮ Key #9      | ㉔ Picture                        |
| ⑦ Key #3     |               | ㉕ 4-Way - Left                   |
| ⑧ Volume Up  |               | ㉖ OK/Play/Pause                  |
| ⑨ Key #4     |               | ㉗ 4-Way - Right                  |
|              |               | ㉘ Repeat A-B                     |
|              |               | ㉙ Title Menu/JPEG thumbnail view |
|              |               | ㉚ 4-Way - Down                   |
|              |               | ⑳ Info                           |
|              |               | ㉛ Search                         |
|              |               | ㉜ Key #0                         |
|              |               | ㉝ Audio Select                   |
|              |               | ㉞ Escape                         |
|              |               | ㉟ 4-Way - Up                     |
|              |               | ㊱ Menu                           |
|              |               | ㊲ Picture                        |
|              |               | ㊳ 4-Way - Left                   |
|              |               | ㊴ OK/Play/Pause                  |
|              |               | ㊵ 4-Way - Right                  |
|              |               | ㊶ Repeat A-B                     |
|              |               | ㊷ Title Menu/JPEG thumbnail view |
|              |               | ㊸ 4-Way - Down                   |
|              |               | ㊹ Root                           |
|              |               | ㊺ Repeat                         |
|              |               | ㊻ Chapter/Track Down             |
|              |               | ㊼ Chapter/Track Up               |
|              |               | ㊽ Fast Reverse                   |
|              |               | ㊾ Fast Forward                   |
|              |               | ㊿ Zoom                           |
|              |               | ㊿ Audio                          |
|              |               | ㊿ Angle                          |
|              |               | ㊿ Sub-Title                      |

\* The remote control uses one 3 volt Lithium CR2025 battery. For best performance, replace only with CR2025 or equivalent.

## Control Functions - Main Remote

Mode	Press once to incrementally select desired source.
Mute	Press once to <b>MUTE</b> audio, press again to return audio.
Open/Close	Press once to open monitor, press again to close the monitor.
Power	Press once to turn the unit on, press again to turn unit off.
Keys 0-9	Direct access chapter/track/preset station for current <b>BAND</b> .
Volume Up	Increase <b>VOLUME</b> .
Volume Down	Decrease <b>VOLUME</b> .
Info	Displays DVD information.
Search	Search function in the DVD mode.
Band/Stop	Press to increment <b>BAND</b> , or <b>STOP</b> while in DVD/MP3 mode.
Audio Select	Enter <b>AUDIO</b> Setup mode.
Escape	Exit current menu.
4-Way-Up/Down/Left/Right	Navigating system and DVD/SD/JPEG menus.
Menu	Enter the <b>MAIN</b> system menu.
Picture	<b>BRIGHTNESS</b> parameter setting for TFT.
OK	Starts/pauses playback or confirm settings.
Repeat A-B	Repeat playback from time frame A to time frame B.
Title Menu	Enters the title menu on DVD/Activates thumbnail view for JPEG.
Root Menu	Enters the main menu of the DVD.
Repeat	Repeats playback of current chapter/track or folder.
Chapter/Track Down	Selects the previous chapter/track for playback.
Chapter/Track Up	Selects the next chapter/track for playback.
Fast Reverse	Fast reverses the disc/SD content.
Fast Forward	Fast forwards the disc/SD content.
Zoom	Zooming in/out on an image from DVD disc or JPEG.
Audio	Change the audio language for DVD disc playback.
Angle	Selects between different angles (when available) for a scene/Rotates JPG clockwise.
Sub-Title	Language selection for subtitle.

## Control Locations - Multi-Zone Remote



- |                   |                      |                |
|-------------------|----------------------|----------------|
| ① Key #1          | ⑫ Key #9             | ⑲ Stop         |
| ② Key #2          | ⑬ Key #0             | ⑳ Play/Pause   |
| ③ Key #3          | ⑭ Title Menu         | ㉑ Zoom         |
| ④ Multi-Zone Mode | ⑮ 4-Way - Up         | ㉒ Fast Reverse |
| ⑤ Multi-Zone Mute | ⑯ Root               | ㉓ Fast Forward |
| ⑥ Key #4          | ⑰ 4-Way - Left       | ㉔ Slow         |
| ⑦ Key #5          | ⑱ OK                 | ㉕ Repeat       |
| ⑧ Key #6          | ⑳ 4-Way - Right      | ㉖ Audio        |
| ⑨ Search          | ㉑ Chapter/Track Down | ㉗ Sub-Title    |
| ⑩ Key #7          | ㉒ 4-Way - Down       | ㉘ Repeat A-B   |
| ⑪ Key #8          | ㉓ Chapter/Track Up   | ㉙ Angle        |

\* The remote control uses one 3 volt Lithium CR2025 battery. For best performance, replace only with CR2025 or equivalent.



## Control Locations - Multi-Zone Remote

Mode	Press once to incrementally select desired Multi-Zone source.
Mute	Press once to <b>MUTE</b> Multi-Zone audio, press again to return audio.
Keys 0-9	Direct access chapter/track.
Search	Search function in the DVD mode.
Title Menu	Enters the title menu on DVD/Activates thumbnail view for JPG.
Root Menu	Enters the main menu of the DVD.
4-Way-Up/Down/Left/Right	Navigating system and DVD/SD/JPG menus.
OK	Starts/pauses playback or confirm settings.
Chapter/Track Down	Selects the previous chapter/track for playback.
Chapter/Track Up	Selects the next chapter/track for playback.
Stop	Press to <b>STOP</b> while in disc/SD mode.
Play/Pause	Press to Play/Pause in the disc/SD modes.
Zoom	Zooming in/out on an image from DVD disc or JPG.
Fast Reverse	Fast reverses the disc/SD content.
Fast Forward	Fast forwards the disc/SD content.
Slow	Press to activate slow playback in DVD mode.
Repeat	Repeats playback of current chapter/track or folder.
Audio	Change the audio language for DVD disc playback.
Sub-Title	Language selection for subtitle.
Angle	Selects between different angles (when available) for a scene/Rotates JPG clockwise.
Repeat A-B	Repeat playback from time frame A to time frame B.

## General Operation

- Power On/Off**  
 Press to turn the unit on. Hold for 3 seconds to turn the unit off.
- Mute**  
 Press **MUTE** to silence the audio; 00 will appear in the OSD (On Screen Display). Press **MUTE** again to cancel.
- Mode**  
 Press **MODE** to select between Tuner, Disc, XM, Camera, SD and Aux AV inputs. Modes of operation are indicated in the **OSD** (On Screen Display).  
  
 XM tuner and SD card (all optional) must be connected/inserted to appear in the **MODE** selection string.
- Optional Mode Selection**  
 Press the top left corner of the screen to display the **OSD** menu bar. Press Tuner, Disc, XM, Camera, SD and Aux AV inputs in the **MAIN** menu page to select the desired source.
- Volume**  
 Adjust **VOLUME** using rotary encoder or the **VOL +/-** buttons (00-40).
- Audio Adjustment (from front panel)**  
 Press rotary knob for 3 seconds, then release. Press rotary momentarily to advance to desired parameter to be changed.  
 Turn rotary or to adjust to desired level. Press rotary to advance to next selection, and press and hold to exit.



6-Channel Audio Settings	
Item	Adjustable Range
Master Volume	00 to 40
Front Left Channel Volume	-10 to +10
Front Right Channel Volume	-10 to +10
Rear Left Channel Volume	-10 to +10
Rear Right Channel Volume	-10 to +10
Center Channel Volume	-10 to +10
Subwoofer Volume	-10 to +10

**Note:** 6-Channel audio is only adjustable when "Full 6CH" mode is selected. Refer to page 49 for more details.

- Audio Adjustment (from remote)**  
 Press the **SEL** button. Press the or buttons on the remote to select an item to be adjusted. Press or to adjust the desired setting. Press the **ESC** button on the remote control to exit the audio control menu.

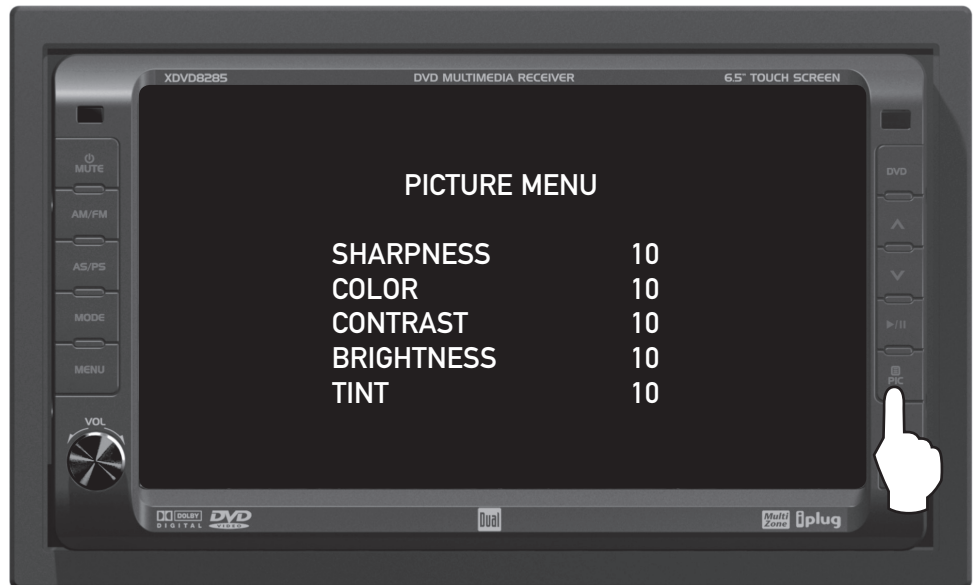
**Notes:** The Bass and Treble levels are only adjustable when EQ is set to "User" mode. The Loud function compensates for deficiencies in sound ranges at low levels. When the Loud function is on, LOUD is displayed in the OSD.

# General Operation

**INFO/PIC** Press **PIC** momentarily to display DVD disc information.

**Monitor Brightness** Press and hold **PIC** for 2 seconds to change monitor **BRIGHTNESS**: Press **▲** to increase, **▼** to decrease, or turn the rotary to adjust the level up or down. (0 minimum/20 maximum) 10 is default.

**CVBS Screen Controls** While in **Aux** or **Camera** mode: Press and hold **PIC** for 2 seconds to access **PICTURE MENU**. Press **PIC** momentarily to step to next selection:



**Sharpness** Press **▲** or **▼** to adjust the sharpness (0 minimum/+20 maximum).

**Color** Press **▲** or **▼** to adjust the color (0 minimum/+20 maximum).

**Contrast** Press **▲** or **▼** to adjust the contrast (0 minimum/+20 maximum).

**Brightness** Press **▲** or **▼** to adjust the brightness (0 minimum/+20 maximum).

**Tint** Press **▲** or **▼** to adjust the tint (0 minimum/+20 maximum).

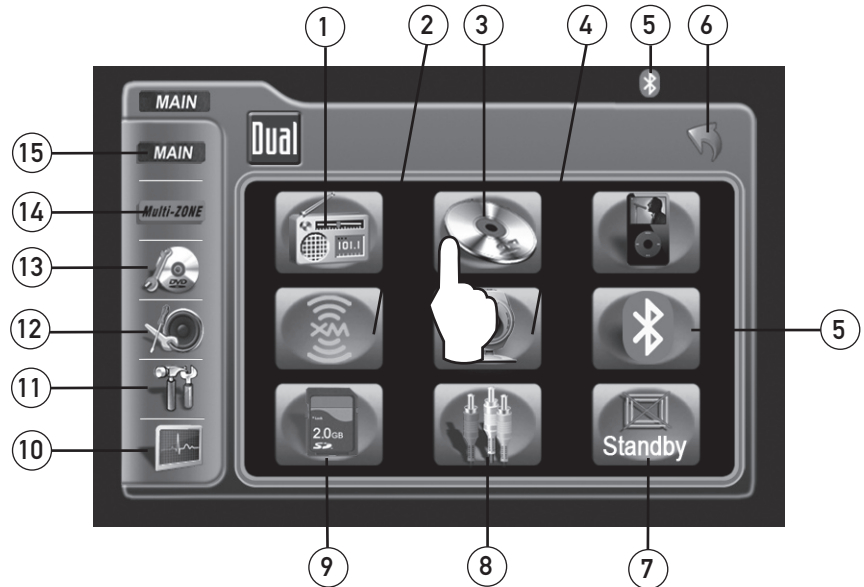
**Note:** Adjustments to Sharpness, Color, Contrast, Brightness, or Tint are only possible while in either Aux or Camera mode.

## General Operation - Main Menu

### Main Menu Access

There are three methods to access the MAIN menu:

- Press MENU button on the front panel.
- Press MENU button on the main remote control.
- Touch the upper left corner of the touch screen.



### Touch Access Buttons

- 1) Touch to access **AM/FM TUNER** mode.
- 2) Touch to access **XM** mode. (Optional XM tuner must be connected to activate).
- 3) Touch to access **CD/DVD** mode. (CD/DVD must be inserted).
- 4) Touch to access **CAMERA** mode, if optional camera isn't connected, "No Signal Detected" will be displayed.
- 5) Touch to access **BLUETOOTH** mode. (**BLUETOOTH** must be activated first.) Refer to page 81 for more details.
- 6) Touch to **RETURN** to previous screen.
- 7) Touch to enter **STANDBY** mode, touch screen again or any button to resume normal operation.  
Note: **VOLUME** level can be controlled in **STANDBY** mode.
- 8) Touch to access **AUXILIARY A/V INPUT** mode.
- 9) Touch to access **SD** mode. (Optional SD card must be inserted).
- 10) Touch to access **SCREEN SETUP** menu.
- 11) Touch to access **GENERAL SETUP** menu.
- 12) Touch to access **ASP Config** menu.
- 13) Touch to access **CD/DVD SETUP** menu. (CD/DVD must be inserted to function).
- 14) Touch to access **MULTI-ZONE** source menu.
- 15) Touch to access **MAIN** source menu.

### Rapid Dial Rotary Encoder

The rotary encoder can also control touch screen functions from the main menu.

- Select desired function rotating clockwise or counter-clockwise.
- Press to confirm/ENTER.

# GENERAL Setup - Menu



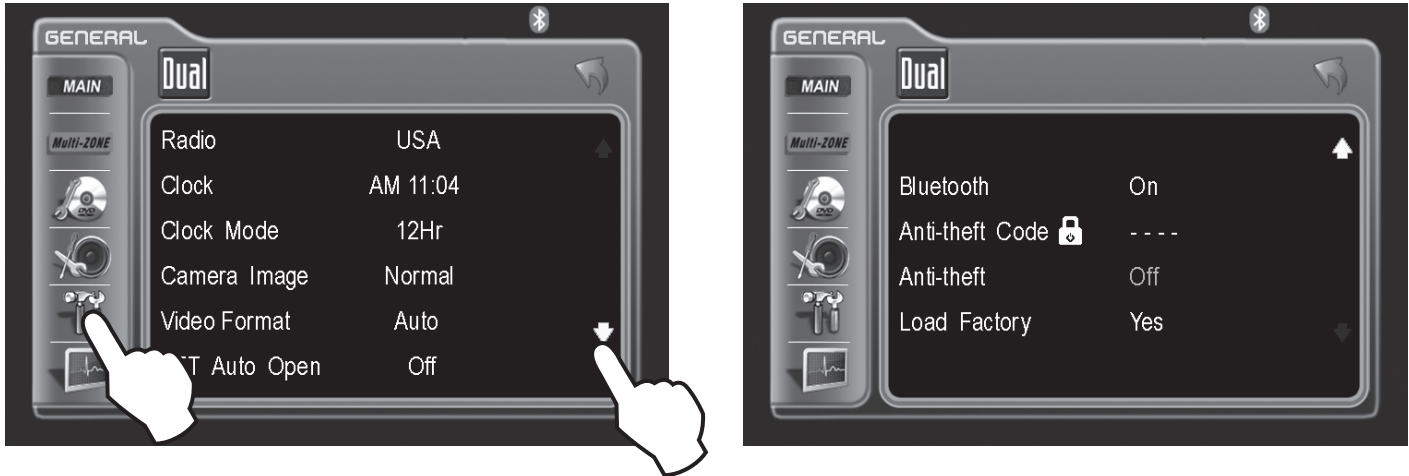
### General Setup Menu

- Press GENERAL icon to access the GENERAL setup mode.
- Select desired parameter you wish to change.
- Page will return back to previous screen after 10 seconds of inactivity or by pressing the RETURN button.

GENERAL Setup Menu matrix - page 1

Settings	Default	Options	Function
Radio	USA	USA	Set to appropriate setting for your country
		S-Amer1	
		S-Amer2	
		Europe	
Clock adjust	AM	00:00	See adjusting the clock on page 23 for more details
Clock Mode	12Hr	12Hr	PM 6:00
		24Hr	18:00
Camera Image	Normal	Normal	Normal Image
		Reverse	Mirror camera input image 180 degrees
Video Format	Auto	Auto	System will auto detect NTSC or PAL
		NTSC	For NTSC compatibility
		PAL	For PAL compatibility
TFT Auto Open	Off	On	TFT panel will automatically open when IGN is turned on
		Off	TFT panel will not auto open when IGN is turned on
		Manual	TFT will only open/close when  button is pressed

## GENERAL Setup - Menu



### General Setup Menu

- Press GENERAL icon to access the GENERAL setup mode.
- Press PAGE icon in the lower right corner.
- Select desired parameter you wish to change.
- Page will return back to previous screen after 15 seconds of inactivity or by pressing the RETURN button.

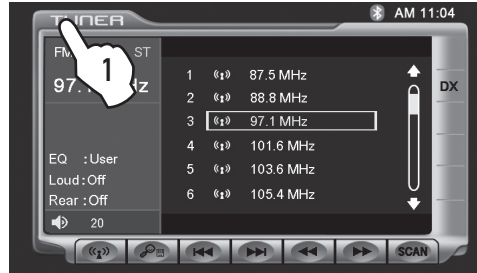
GENERAL Setup Menu matrix - page 2

Settings	Default	Options	Function
Bluetooth	Off	Off	Turns off the Bluetooth functionality
		On	Enables Bluetooth functionality
Anti-theft Code	0000	----	Must enter password to turn anti-theft on or off
Anti-theft active	Off	On	System will require a password if main battery power is removed for more then 40 seconds
		Off	No password will be required if power is removed
Load Factory defaults	Yes	Are you sure? Yes/Cancel	Load all factory parameters to their original settlings. <b>Notes:</b> This will not reset the anti-theft password. Default anti-theft password is 0000.

# GENERAL Setup - Adjusting Radio Frequency

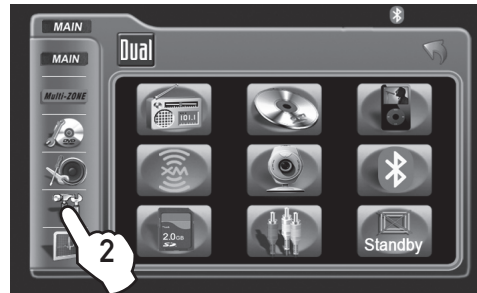
## Adjusting Radio Frequency

Step 1



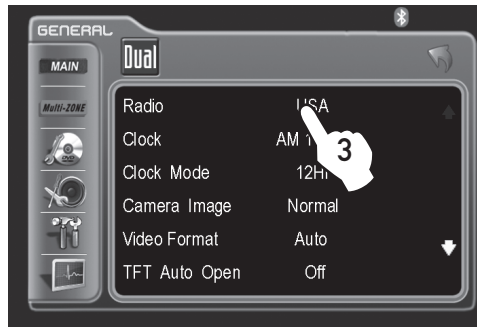
1) Touch top left corner of screen.

Step 2



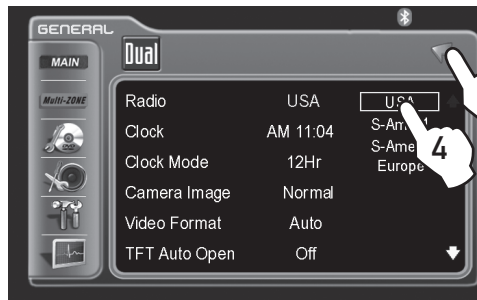
2) Touch GENERAL icon.

Step 3



3) Touch USA.

Step 4



4) Touch the setting for your region.

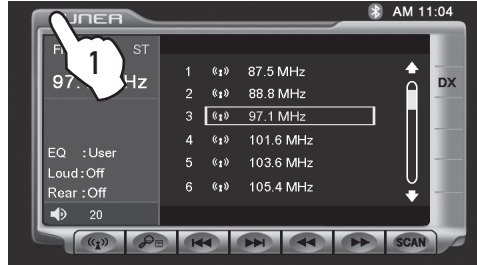
Step 5

Touch RETURN to exit.

## GENERAL Setup - Adjusting the Clock

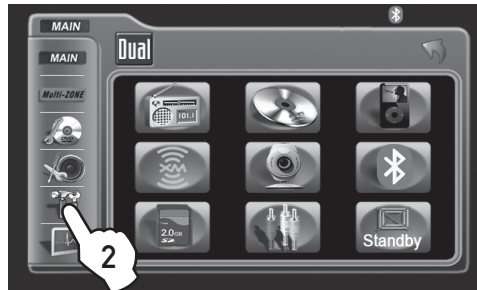
12Hr Clock Mode

Step 1



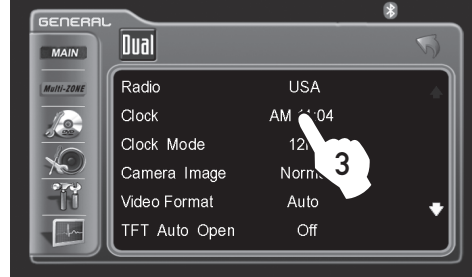
1) Touch top left corner of screen.

Step 2



2) Touch GENERAL icon.

Step 3



3) Touch 00:00 area in the CLOCK row.

Steps 4-8



- 4) Keypad will appear.
- 5) Enter HOURS, touch OK.
- 6) Enter MINUTES, touch OK.
- 7) Touch AM or PM to set.
- 8) Touch RETURN to exit.

24Hr Clock Mode

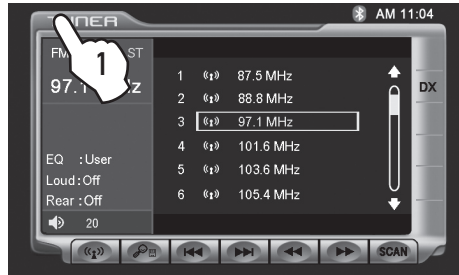
For 24Hr format, select 24Hr from CLOCK MODE, then follow steps 1-8.



# GENERAL Setup - Setting the Anti-theft code

Default Anti-theft password is 0000 and is turned off. To turn this feature on, follow the steps below.  
**CAUTION!!**

This will lock your unit from operating if battery power is disconnected for more than 5 minutes.

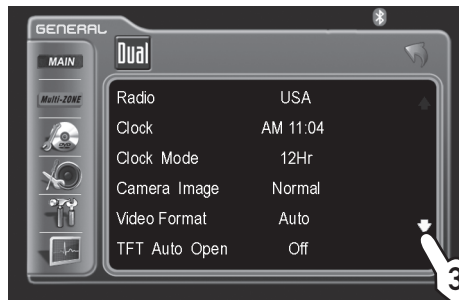


Step 1 & 2

1) Touch top left corner of screen.

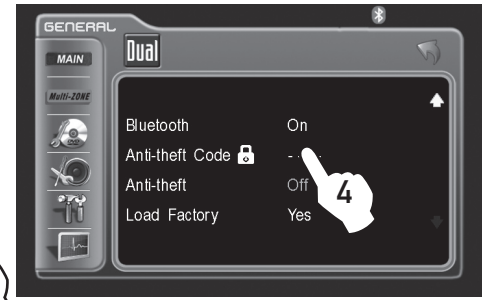


2) Touch GENERAL icon.



Step 3 & 4

3) Touch down arrow icon.

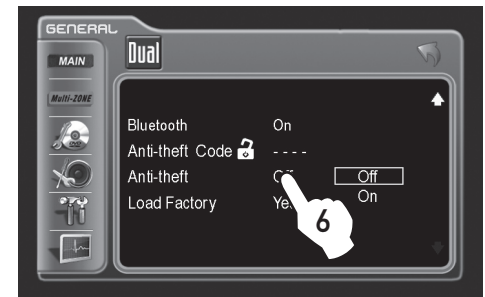


4) Touch ----.



Step 5 & 6

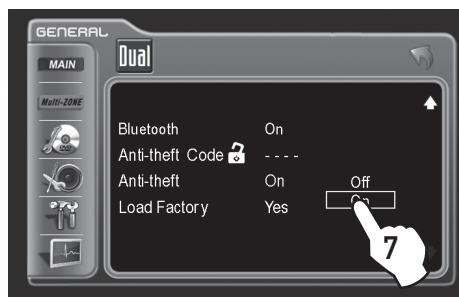
5) Enter 0000, then press OK.



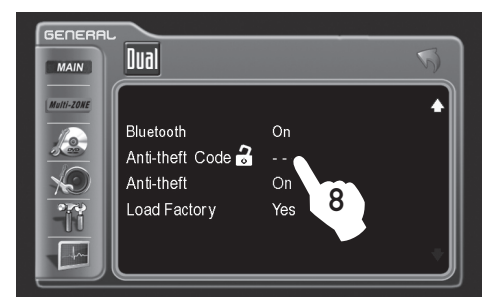
6) Touch Off.

**Note:** it is recommended that you choose your own 4-digit password carefully, write it down somewhere and keep in a safe location. In the event you ever loose or forget your password, call our tech hot line for support on how to unlock your system.

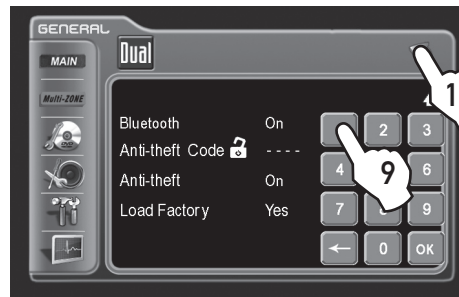
Step 7 & 8



7) Touch On.



8) Touch ---- again.



Step 9 & 10

9) Enter your new 4-digit password, then press OK.

10) Touch RETURN to exit.

## SCREEN Setup - Menu

### Screen Setup Menu



- Press SCREEN icon to access the SCREEN setup mode.
- Select desired parameter you wish to change.
- Page will return back to previous screen after 15 seconds of inactivity or by pressing the RETURN button.

### SCREEN Setup Menu matrix

Settings	Default	Options	Function
Brightness	10	0 - 20	Press ◀ or ▶ on the remote or press the rotary once and rotate clockwise/counter-clockwise to adjust the Brightness to the desired setting
Screen Tilt	4	1 - 6	Select 1 to 6 to adjust the default tilt angle of the screen
Screen Saver	On	Off	Select On to activate the screen saver, Off to deactivate
		On	
TS Calibrate	No	No	Touch Yes to enter the Touch Screen calibration mode
		Yes	
Version			Software version of unit

### System Standby

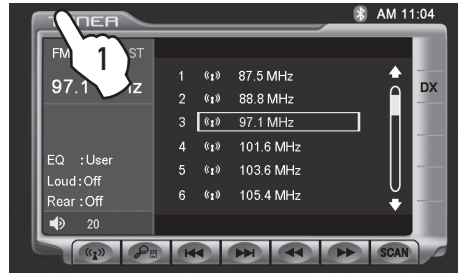


To conserve the LCD backlight lifespan and eliminate glare while night driving, press STANDBY. The TFT screen will turn off (black out), however all other operations continue to operate. Press any button except **VOLUME**, or touch the screen again to return to normal viewing.

# SCREEN Setup - Setting TFT Brightness

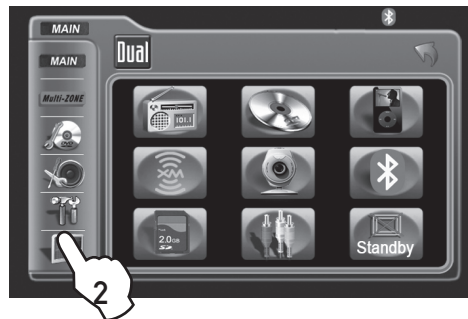
This will set the default setting for the TFT display brightness.  
 This can also be set by pressing the INFO button on the front TFT panel.

Step 1



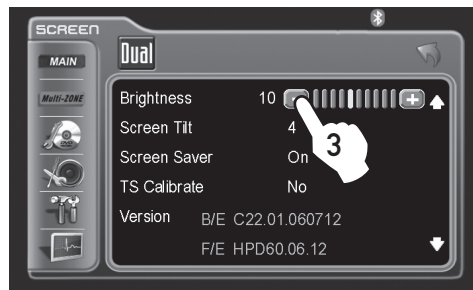
1) Touch top left corner of screen.

Step 2



2) Touch SCREEN icon.

Step 3



3) Touch [-] to reduce brightness.

Step 4



4) Touch [+] to increase brightness.

Step 5

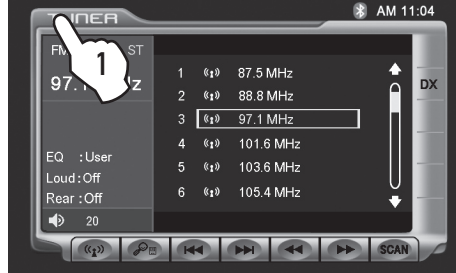
5) Touch RETURN to exit.

0 - 20 is possible  
 Default = 10

## SCREEN Setup - Setting TFT Angle

Set for best viewing angle for your vehicle

Step 1



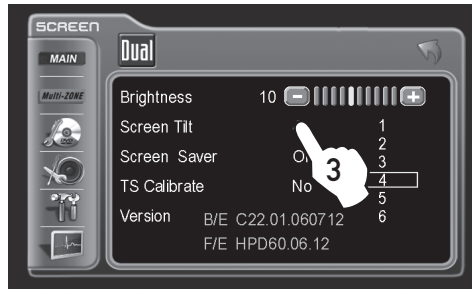
1) Touch top left corner of screen.

Step 2



2) Touch SCREEN icon.

Step 3



3) Touch a number displayed in SCREEN TILT row.

Step 4



4) Touch desired angle for best viewing angle.

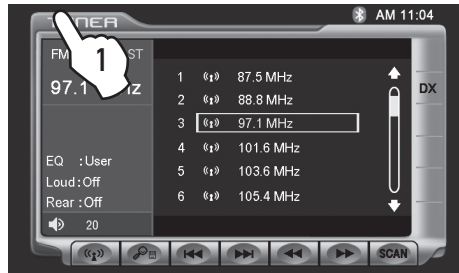
1 - 6 is possible  
Default = 4

Step 5

5) Touch RETURN to exit.

# SCREEN Setup - Touch Screen Calibration

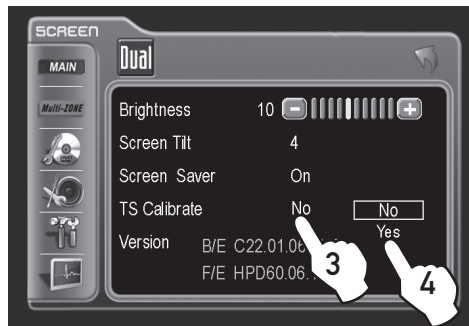
Upon initial installation or occasionally, the touch screen may have to be calibrated. Follow these steps as described.



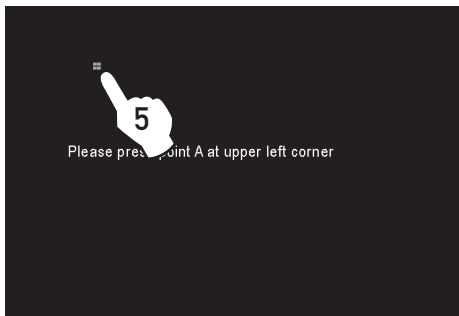
**Step 1** 1) Touch top left corner of screen.



**Step 2** 2) Touch SCREEN icon.



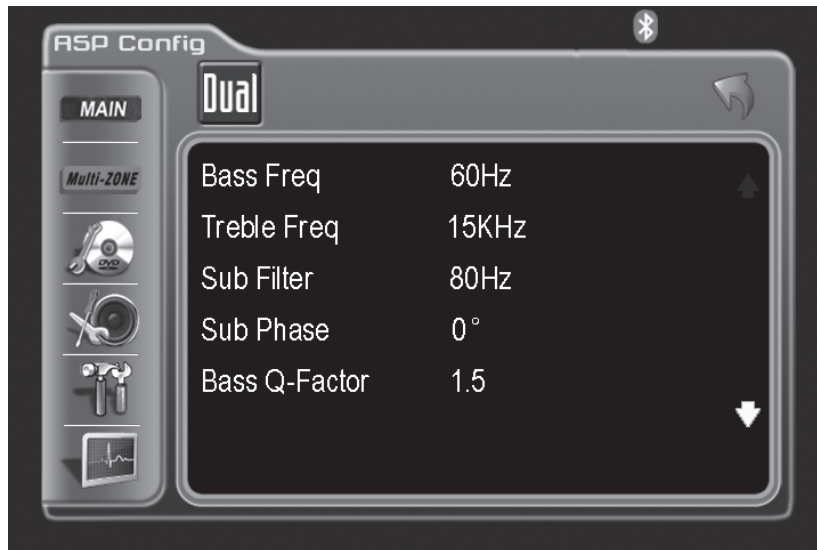
**Step 3 & 4** 3) Touch No in TS Calibration row.  
4) Then touch Yes.



**Step 5 & 6** 5) Touch and hold the pointers as indicated on the screen for 2 seconds each.  
6) Screen will automatically return to MAIN MENU, touch RETURN to exit.

**Notes:** For proper calibration you must touch each pointer for 2 seconds. If pointers are not touched properly, the calibration sequence will start over until the calibration is done correctly.

## ASP Config - Audio Settings



**Notes:** These settings affect the quality of the audio in "Downmix" mode only and are primarily for use by a professional installer. For the casual user, it is recommended to only adjust the general sound quality by using the Audio Setup Menu, which is accessed by pressing the **SEL** button on the remote or pressing the rotary for 3 seconds.

**Bass Freq** Sets the bass center frequency for optimal bass effect.  
Choices are 60, 80, 100, 130, 150 and 200Hz.

**Treble Freq** Sets the treble center frequency for optimal treble effect.  
Choices are 10, 12.5, 15 and 17KHz.

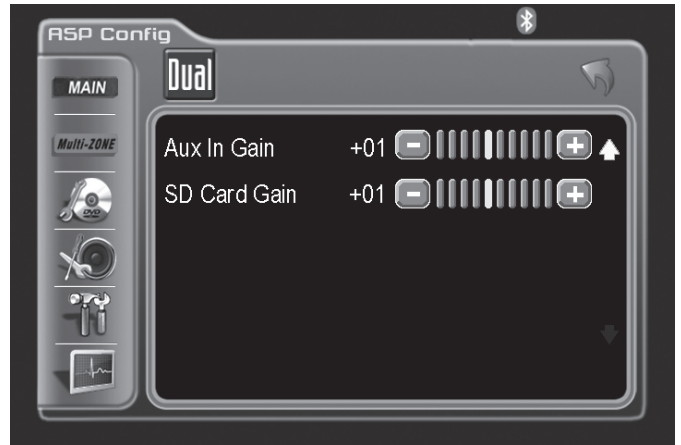
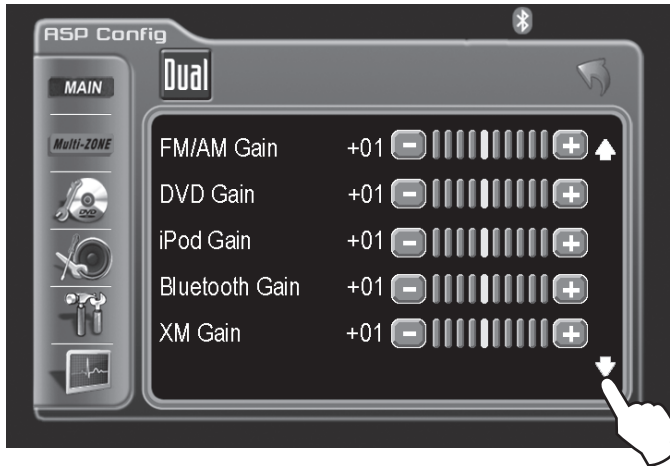
**Sub Filter** Sets the subwoofer crossover frequency which affects the subwoofer's low-pass filter and the "SMALL" speakers' high-pass filter.  
Choices are 80, 120 and 160Hz.

**Notes:** This setting has no effect when the subwoofer is set to "OFF" and/or if any other speaker is set to "LARGE".

**Sub Phase** Sets the phase of the subwoofer. Depending on the installation, this setting can be used to change the relative phase of the subwoofer output in relation to the other speakers.  
Choices are 0° and 180°.

**Bass Q-Factor** This setting alters the sharpness or "Q factor" of the bass output.  
Choices are 1.0, 1.25, 1.5 and 2.0.

# ASP Config - Audio Settings

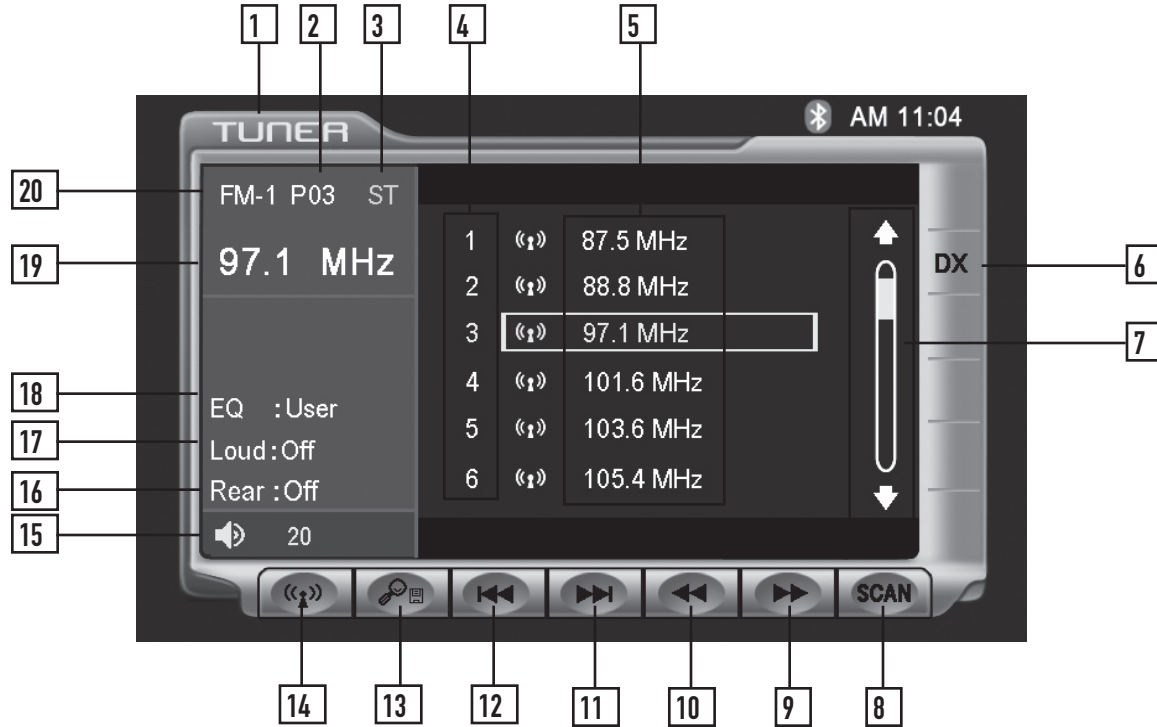


**Notes:** The Gain settings allow you to customize the relative volume of the various modes to compensate for volume differences between the sources. The range is adjustable between -7 to +7, with 0 being the reference point (default level).

- FM/AM Gain** Adjusts the relative volume in AM/FM Tuner mode.
- DVD Gain** Adjusts the relative volume in DVD/CD/MP3/WMA mode.
- Bluetooth Gain** Adjusts the relative volume in Bluetooth mode.
- XM Gain** Adjusts the relative volume in XM Tuner mode.
- Aux In Gain** Adjusts the relative volume in Aux In mode.
- SD Card Gain** Adjusts the relative volume in SD Card mode.

Note that **Aux In Gain** and **SD Card Gain** are on a separate screen, which is accessed by touching the white arrow at the bottom right corner of the screen.

## AM/FM Tuner Operation - OSD Overview



- |                   |  |
|-------------------|--|
| <b>Tuner Mode</b> | From the main menu, touch TUNER icon on the screen, or press the AM/FM button to select AM/FM Tuner mode.  |
| 1                 | <b>Current Source Indicator</b><br>Displays source currently playing.  |
| 2                 | <b>Preset Number Indicator</b><br>Shows what preset has been selected.   |
| 3                 | <b>Stereo Indicator</b><br>Shows that the frequency selected is received in stereo.  |
| 4                 | <b>Preset Number List Display</b><br>Shows the preset list by preset number.   |
| 5                 | <b>Preset Station List Display</b><br>Shows the preset station list by frequency. Touch frequency to select a preset. Touch and hold frequency to store presets. |
| 6                 | <b>Local / DX Tuning Mode</b><br>Shows when local or distance tuning is on.  |
| 7                 | <b>Preset Display Scroll Bar</b><br>Allows scrolling of preset list.   |
| 8                 | <b>Tuner Scan</b><br>Touching this icon will scan through all available stations in the current band.  |





















## AM/ FM Tuner Operation - OSD Overview

- |           |  |
|-----------|--|
| <b>9</b>  | <b>Tune Frequency - Up</b><br>Touching this icon will tune the radio to a higher frequency by one frequency step.  |
| <b>10</b> | <b>Tune Frequency - Down</b><br>Touching this icon will tune the radio to a lower frequency by one frequency step.   |
| <b>11</b> | <b>Seek Next Station - Up</b><br>Touching this icon will tune to the next strong station at a higher frequency. (This function can also be performed by pressing ▲.)   |
| <b>12</b> | <b>Seek Next Station - Down</b><br>Touching this icon will tune to the next strong station at a lower frequency. (This function can also be performed by pressing ▼.)  |
| <b>13</b> | <b>Preset Scan/Auto Station Tune</b><br>Touching this icon will scan through all presets in the current band. (This function can also be performed by pressing the <b>AS/PS</b> button.)<br>Holding this button for more than 2 seconds will automatically program the 12 strongest stations available into the presets in the current band. (This function can also be performed by holding the <b>AS/PS</b> button.) |
| <b>14</b> | <b>Band</b><br>Touch band icon repeatedly until the desired band is displayed, FM-1, FM-2, FM-3, or AM. (This function can also be performed by pressing <b>AM/FM</b> button.)   |
| <b>15</b> | <b>Volume Indicator</b><br>Indicates current volume level, controlled by rotary encoder.   |
| <b>16</b> | <b>Multi-Zone Indicator</b><br>Displays current status of <b>Multi-Zone</b> mode.  |
| <b>17</b> | <b>Loudness Indicator</b><br>Touch screen here to enter Audio Setup Menu.  |
| <b>18</b> | <b>EQ Indicator</b><br>Touch screen here to enter Audio Setup Menu.  |
| <b>19</b> | <b>Current Station Indicator</b><br>Indicates current frequency.   |
| <b>20</b> | <b>Band Indicator</b><br>Shows which band the radio is tuned to, FM-1, FM-2, FM-3, or AM.  |

## AM/FM Tuner Operation



<b>AM/FM Tuner Mode</b>	From the main menu, touch TUNER icon to select AM/FM Tuner mode.
	Press the <b>AM/FM</b> button.
	From the remote control or the front panel: Press <b>MODE</b> until TUNER is displayed on the screen.
<b>Band</b>	Touch  on the screen repeatedly until the desired band is displayed, FM-1, FM-2, FM-3, or AM.
	Press the <b>AM/FM</b> button to switch between bands, FM-1, FM-2, FM-3, AM.
	From the remote control: Press the <b>BAND</b> button.
<b>Manual Tuning</b>	Touch  on the screen to tune to the next higher frequency step. Touch  on the screen to tune to the next lower frequency step.
	Touch and hold either  or  on the screen to continue tuning across multiple stations.
	From the remote control: Touch  or  to perform manual tuning.
<b>Seek Tuning</b>	Touch  to tune to the next higher strong station. Touch  to tune to the next lower strong station.
	Press  to tune to the next higher strong station. Press  to tune to the next lower strong station.
	From the remote control: Press  or  to tune to the next higher strong station. Press  or  to tune to the next lower strong station.
<b>Storing Presets</b>	There are 36 FM and 12 AM presets available in 4 bands. After finding a frequency that you would like to store in memory, touch and hold the screen on any of the frequencies in the preset station list until it turns yellow.
<b>Auto Store Presets</b>	Touch and hold the  icon to automatically program the 12 strongest stations available into the presets in the current band.
	Press and hold the <b>AS/PS</b> button for more than 2 seconds.



# AM/ FM Tuner Operation

**Preset Scan** Touching the button will scan through all tunable presets in the current band and play them for 10 seconds each.

Press the **AS/PS** button momentarily.

**Direct Preset Tuning** To select a desired station from the preset station list, touch any of the displayed station frequencies from the list.

Use Rapid Dial by pressing in on the rotary, turn clockwise or counter-clockwise, and pressing in again to select the highlighted channel.

Use the up and down arrows on screen to scroll through the presets. Once highlighted, simply touch the screen at the appropriate preset.

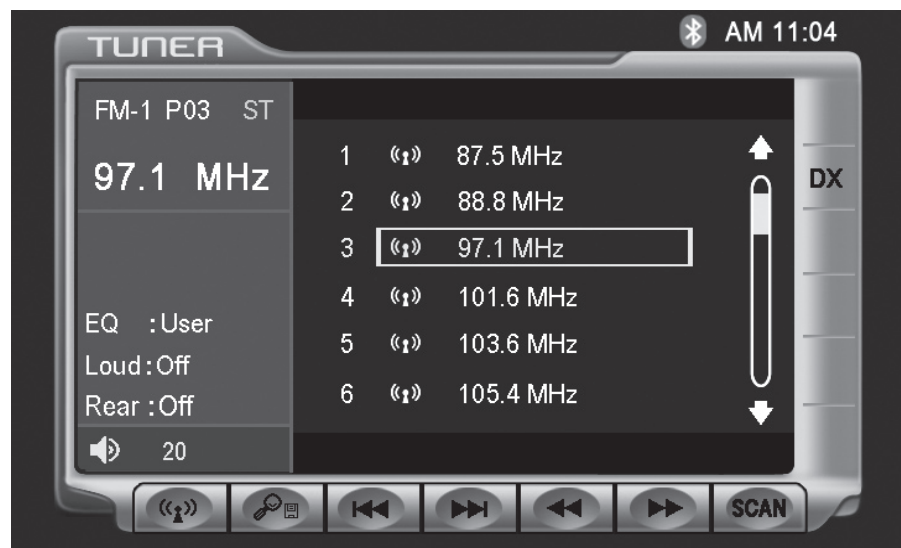
From the remote control:

Press **▲** or **▼** to scroll through the presets. When the correct preset is highlighted press **OK**.

Use the numeric keypad to enter the desired preset number.

**Scan Tuning** Touch **SCAN** on the screen and it will tune you to all stations available with good reception for 10 seconds at a time. Touch **SCAN** again to disable.

**Local Tuning** Local tuning lets you tune in radio stations with sufficiently strong signals for good reception. In areas that reception is poor, you can switch from local to distance tuning by touching the **LOC** button on the screen.





## **XDVD8285 OPERATION**

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### **⚠ WARNING ⚠**

Upon installation of this Monitor/DVD player (“unit”) into a vehicle, the driver of the vehicle must not operate this unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle’s occupants or persons outside the vehicle and/or property damage.

Several states prohibit the installation of monitors/DVD players if the screen is visible from the driver’s seat. If you reside in a jurisdiction which has enacted such a law, this unit must not be installed so that the screen is visible from the driver’s seat. When installing this unit in the front console/dashboard, the unit must be positioned so that it is facing the front passenger seat only. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle’s occupants or persons outside the vehicle and/or property damage.

This unit is designed so that it may be operated only when the vehicle is in “Park” and the parking brake is fully engaged. To this end, this unit includes a parking brake lock-out feature which prohibits the unit from operating if the vehicle is not in “Park” and/or the parking brake is not fully engaged. When installing this unit, the installer must connect the parking brake detect wire (“Yellow-Blue Lead”) to the parking brake mechanism in order to make the parking brake lock-out feature operable. **DO NOT** simply ground the parking brake detect wire to a metal portion of the vehicle. Failure to properly install the parking brake lock-out feature could lead to driver distraction which could result in serious injury or death to the driver’s occupants or persons outside the vehicle and/or property damage.

Once the parking brake lock-out feature is installed, the owner/user must not attempt to disrupt/neutralize the parking brake lock-out feature by (a) partially engaging the parking brake and/or (b) purchasing/using any device or unit designed to send necessary brake signals to the unit. Failure to follow these instructions could lead to driver distraction which could result in serious injury or death to the driver’s occupants or persons outside the vehicle and/or property damage.

When operating this unit, keep the unit’s volume level low enough so that the vehicle’s occupants can hear traffic-related sounds such as police and emergency vehicles. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle’s occupants or persons outside the vehicle and/or property damage.

# DVD Operation - Parking Brake Initialization



**CAUTION !!!**  
IT'S UNLAWFUL TO OPERATE  
A VEHICLE WHILE VIDEO IS  
DISPLAY IN THE DRIVERS  
VIEWING AREA

ENGAGE EMERGENCY BRAKE  
TO ENJOY VIDEO

## SAFETY WARNING



- The video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash video functions will only operate when vehicle is in Park and the **PARKING BRAKE** is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Refer to local laws in your area.
- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, “**ENGAGE PARKING BRAKE**” blue screen will show on the display when the vehicle's parking brake is not engaged. Video display on the front monitor isn't allowed until the **PARKING BRAKE** is engaged. By connecting the yellow/blue **PARKING BRAKE** wire to brake switch circuit as described below, DVD and AUX AV audio can be heard while the vehicle is in motion without engaging the parking brake.

### Front Monitor Video Initialization

Follow these two initialization procedures carefully to allow video playback on on the XDVD8285 TFT:

There are two situations that start the **PARKING BRAKE** sequence.

### Parking Brake Initialization Situation 1

#### First situation is while driving:

- 1) Stop vehicle, put in Park, make sure **PARKING BRAKE** is off/released.
- 2) Depress **PARKING BRAKE** for 1 second.
- 3) Release **PARKING BRAKE** for 1 second.
- 4) Depress **PARKING BRAKE** permanently.

#### Note:

Once above procedure 1-4 is completed, video will display in about 6 seconds.

### Parking Brake Initialization Situation 2

#### Second situation is while already parked and the **PARKING BRAKE** is already applied:

- 1) Keep vehicle in Park, **PARKING BRAKE** should be on.
- 2) Release **PARKING BRAKE** for 1 second.
- 3) Depress **PARKING BRAKE** for 1 second.
- 4) Release **PARKING BRAKE** for 1 second.
- 5) Depress **PARKING BRAKE** permanently.

#### Notes:

Once 2nd procedure 1-5 is completed, video will display in approx. 6 seconds. The transition time must be less than 2 seconds between depress and release. This procedure will have to repeated when the IGN is turned off.



# XDVD8285 OPERATION

## DVD Operation



### DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8285 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

The XDVD8285 will play discs labeled "Region 1" or "All".

### DVD region codes:

- 1 - USA, Canada
- 2 - Japan, Europe, South Africa, Middle East
- 3 - Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
- 4 - Australia, New Zealand, Mexico, South America
- 5 - Eastern Europe, Russia, India, Africa
- 6 - China



### DVD Disc Symbols

Symbol	12cm Disc Properties	Max Play Time
	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
	Single side single layer	74 minutes

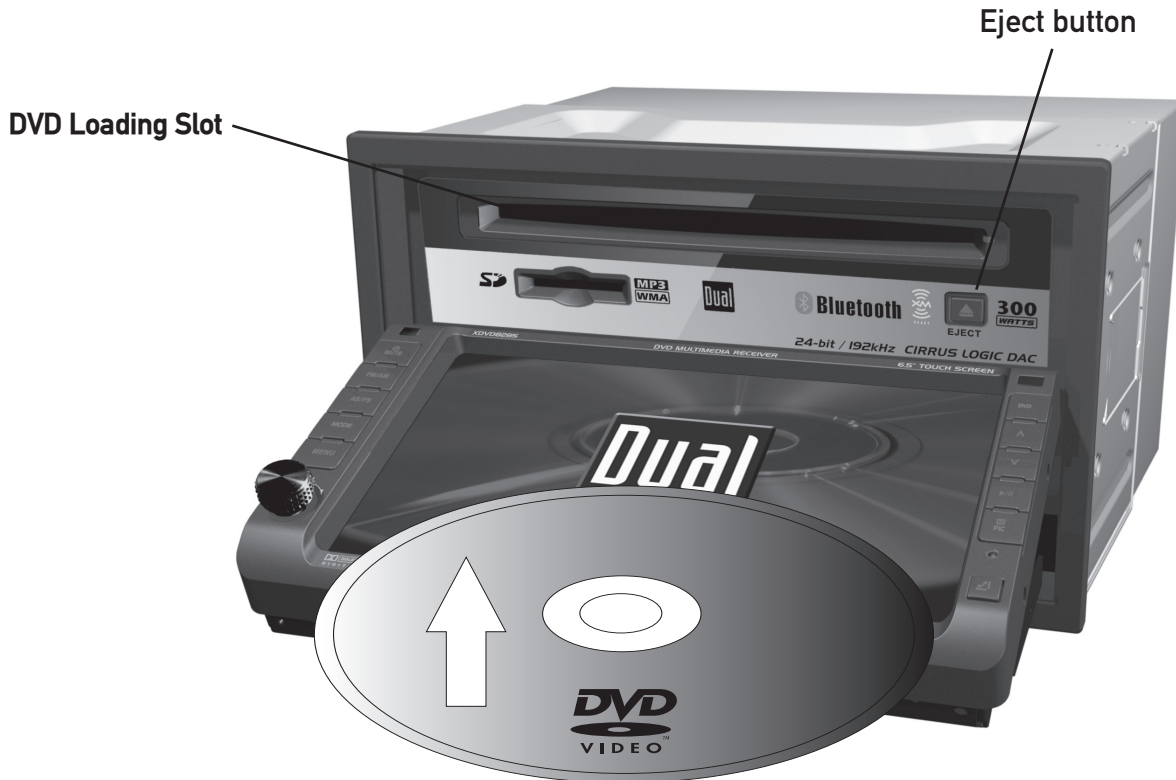
Symbol	Meaning
	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
	Number of subtitle languages available on the disc (maximum of 32).
	Number of angles provided (maximum of 9).
	Aspect ratios available. "LB" stands for Letter Box and "PS" stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
	Indicates the region code where the disc can be played. <ul style="list-style-type: none"> <li>· Region 1: USA, Canada, East Pacific Ocean Islands</li> <li>· Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East</li> <li>· Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia</li> <li>· Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania</li> <li>· Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia</li> </ul>

### Notes:

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8285 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.




# DVD Operation - Inserting a Disc



Insert CD/DVD with label facing upwards

### Inserting a Disc

Open panel to reveal disc slot by pressing . With the label facing up, insert a standard size disc into the slot. The panel will close and the disc will automatically begin playback. Other sub-menus may have to be pressed to access the DVD movie/music content. Read the directions of your specific DVD disc for other features.

**Note:** If PARENTAL Lock is activated and the disc inserted is not authorized, a 4-digit code must be entered and/or the disc be authorized. See "RATING MENU" on page 53.

**Note:** Only one disc can be inserted at a time.

### Ejecting the Disc

Press the EJECT button.

### Resetting the Loading Mechanism

If the disc loads abnormally or an system error occurs, press and hold the eject button for 3 seconds to reset the loading mechanism. The disc will eject and normal operation should resume.

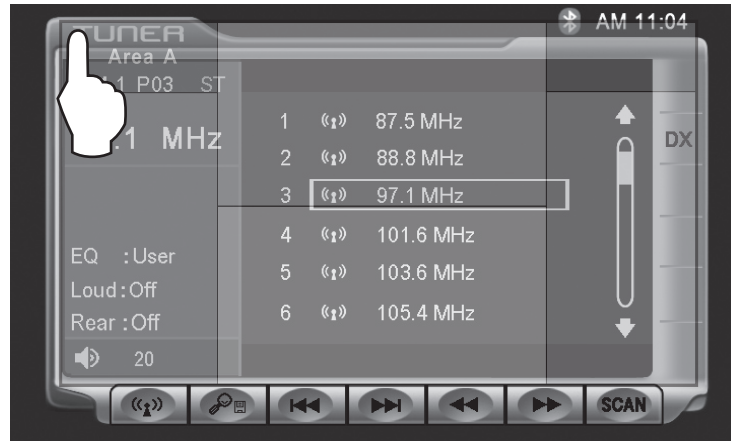
# DVD Operation - Touch Screen Controls



**Hidden Touch Screen area while in TUNER mode**

There are several hidden **TOUCH SCREEN** areas as outlined below:

"A" area can be used in any mode to access **MAIN** menu.



**Hidden Touch Screen areas while in DVD mode**

"A-F" areas can be used in **DVD** mode to access:

- A - Displays **MAIN** menu
- B - Displays **DVD** disc information
- C - Selects **PREVIOUS** chapter
- D - Selects **NEXT** chapter
- E - Displays the full **DVD** transport controls
- F - Displays **GOTO** search menu





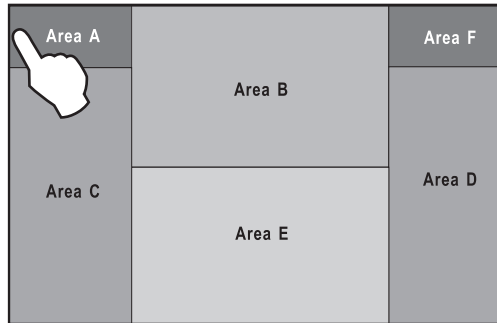


# DVD Operation - Touch Screen Controls

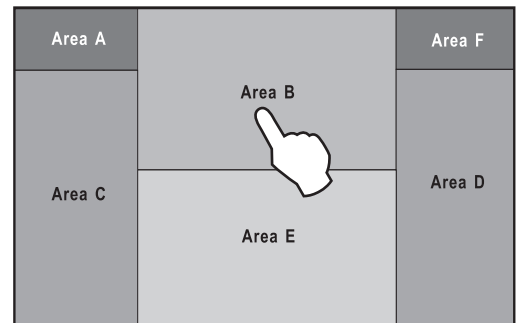
## Using the hidden Touch Screen Controls

- A - Displays **MAIN** menu
- B - Displays **DVD** disc information
- C - Selects **PREVIOUS** chapter
- D - Select **NEXT** chapter
- E - Displays the full **DVD** transport controls
- F - **GOTO** search menu

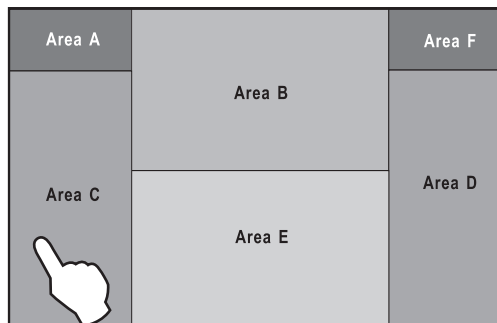
**Note:**  
A DVD disc must be inserted to access these functions and features.



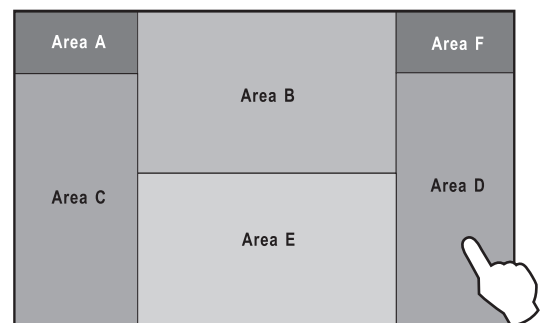
**AREA A**  
Access MAIN Menu



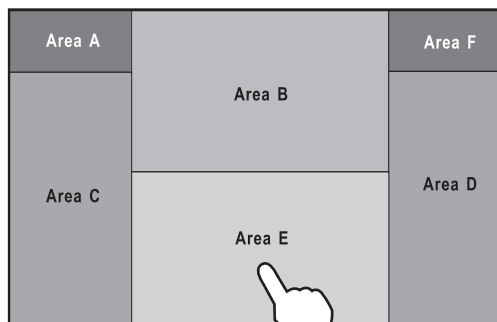
**AREA B**  
Displays Disc Information



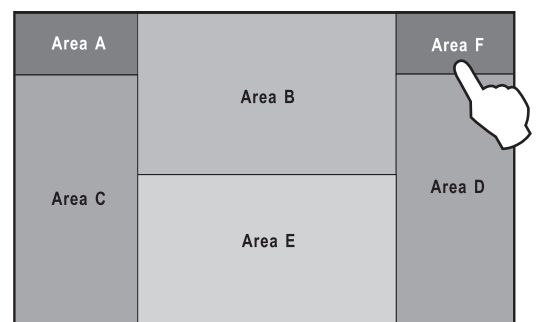
**AREA C**  
Selects PREVIOUS Track



**AREA D**  
Selects NEXT Track



**AREA E**  
Displays DVD Transport Controls



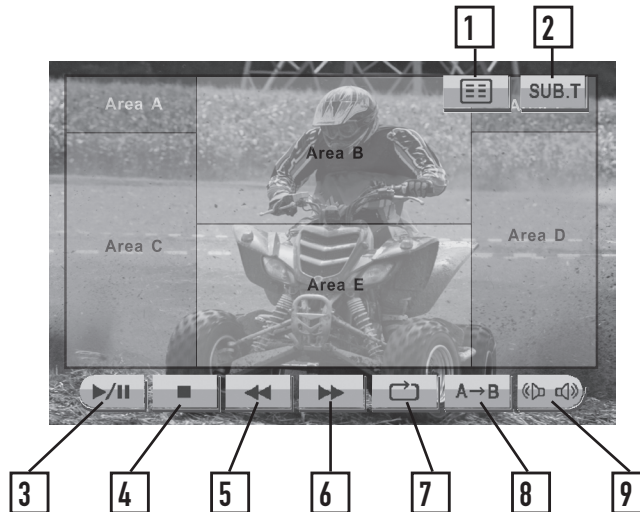
**AREA F**  
DVD Search

## DVD Operation - Touch Screen Controls



Using the hidden Touch Screen Controls

Touch AREA E



DVD Mode

From the main menu, touch the DISC icon on the screen, or press DVD button to select DVD mode.

1

**Title Menu**  
Jumps to the DVD Title menu.

2

**Sub-Title Mode**  
Activates sub-titles and cycles between multiple sub-title languages.

3

**Play/Pause**  
Touch the ►/|| icon to temporarily stop or resume playback.

4

**Stop**  
Touch the ■ icon to stop the chapter where it is.

5

**Fast Reverse**  
Touch the ◀◀ icon to fast reverse at 2x speed.  
Each touch changes speed from 2x to 4x to 8x to 20x then back to 1x play.

6

**Fast Forward**  
Touch the ▶▶ icon to fast forward at 2x speed.  
Each touch changes speed from 2x to 4x to 8x to 20x then back to 1x play.

7

**Repeat**  
Touch the ↺ icon to repeat the current chapter or title. This icon will remain highlighted until touched a third time to disable.

8

**Repeat A-B**  
Touch the A→B icon once to select a start point. Touch it a second time to select an end point. The A→B icon will illuminate and the DVD will then loop from the start point to the end point until touched a third time.

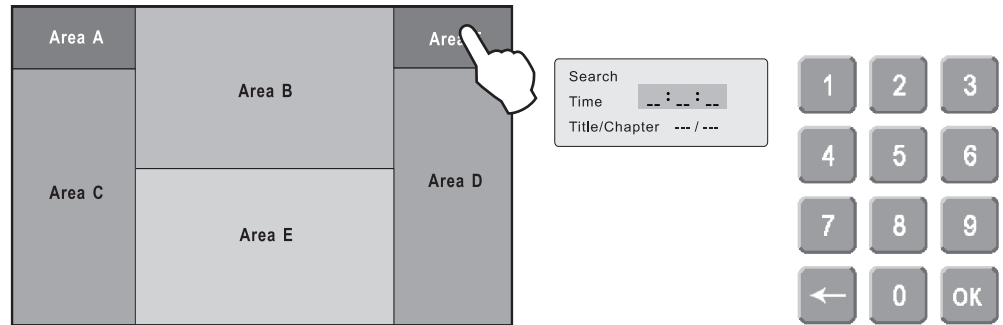
9

**Audio Mode**  
Touch this icon to activate alternate audio modes on DVD's that have alternate audio streams.



## DVD Operation - Searching a DVD

### Searching a DVD



### Searching by Time, Title or Chapter

Touch Area F to bring up the Search Window. The Search Window allows a search for a specific time, title or chapter.

### Search by TIME example

To search for a specific time, touch the ---:---:--- area and an on-screen keyboard will pop up. Use the keyboard to enter a time and touch **OK**. (For example, to skip to 1 hour, 12 minutes and 19 seconds into the DVD, touch: **1 1 2 1 9 OK**.)

To search for a specific title and/or chapter, touch the --- / --- area and an on-screen keyboard will pop up. Use the keyboard to enter a title and chapter and touch **OK**. This can be used to select a specific chapter in the current title, a new title or a specific chapter in a new title. (For example, to skip to a specific chapter within the current title, touch the --- on the right and use the keyboard to enter a chapter number, then touch **OK**.)

To skip to a different title and start from the beginning, touch the --- on the left and the keyboard to enter a title number, then touch **OK**. To skip to a specific chapter in a new title: touch the left --- and use the keyboard to enter a title number, **DO NOT** touch **OK**, then touch the right --- and use the keyboard to enter a chapter number, Then touch **OK**.)

From the remote control:

Press **SRCH** to bring up the search window, then use the arrows to highlight either the time, title or chapter field and use the numeric keypad to enter the appropriate information and press **OK**.

#### Notes:

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8285 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

## DVD Operation



<b>Playback Control</b>	<p>Touch Area E to bring up the on-screen buttons. Touch ►► to fast forward or ◀◀ to fast reverse. Each subsequent press of the button will change the speed from normal to 2x to 4x to 8x to 20x and back to 1x.</p> <p>Hold the ▲ button to fast forward. Hold the ▼ button to fast reverse.</p> <p>From the remote control: Press ►► to fast forward. Press ◀◀ to fast reverse.</p>
<b>Repeat Mode</b>	<p>Touch the Repeat button to repeat either a chapter or title. The first touch activates <b>Repeat Chapter</b> mode and a second touch activates <b>Repeat Title</b> mode. When either mode is active, the Repeat button will be illuminated, and touching it a third time will disable <b>Repeat Mode</b>.</p> <p>From the remote control: Press ↻ to select Repeat Chapter, Repeat Title and Repeat Off modes.</p> <p><b>Note:</b> The <b>Repeat Mode</b> can only be changed while the DVD is playing.</p>
<b>Repeat A-&gt;B</b>	<p>Touch the A → B icon once to select a start point. Touch it a second time to select and end point. The A → B icon will illuminate and the DVD will then loop from the start point to the end point until touched a third time.</p> <p>From the remote control: Press A → B to select a start point and stop point. Press a third time to deactivate.</p>
<b>Play/Pause</b>	<p>Touching Play/Pause will temporarily stop playback of the DVD. Touching it again will resume playback.</p> <p>Press the <b>PLAY/PAUSE</b> button to pause or resume the DVD.</p> <p>From the remote control: Press <b>OK</b> to temporarily stop and resume playback.</p>
<b>Stop</b>	<p>Touch Stop to stop playback. Pressing Play at this point will resume playback. If Stop is touched a second time, then playback stops completely and will restart from the beginning of the disc.</p> <p>From the remote control: Press ■ to stop playback of the current chapter.</p>



## DVD Operation

<p><b>Sub-Titles</b></p>	<p>Touch the <b>SUB.T</b> button to activate <b>Sub-Title</b> mode and select a sub-title language. Each touch will cycle the mode from off to language 1, language 2, etc., and back to off.</p> <p>From the remote control: Press the <b>SUB-T</b> button to control <b>Sub-Title</b> mode.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Not all DVDs have sub-titles and when they do, some will only have 1 language. Therefore this function may be disabled or limited.</li> <li>• The <b>Sub-Title Mode</b> can only be changed while the DVD is playing.</li> </ul>
<p><b>Audio Mode</b></p>	<p>Touch the <b>Audio Mode</b> icon to change the audio stream. Each touch will cycle the language.</p> <p>From the remote control: Press the <b>AUDIO</b> button to control the <b>Audio Mode</b>.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Not all DVDs have multiple languages, therefore this function may be disabled or limited.</li> <li>• The <b>Audio Mode</b> can only be changed while the DVD is playing.</li> </ul>
<p><b>DVD Disc Information</b></p>	<p>Touch Area B to bring up the <b>DVD Disc Information</b>, which includes: Current/Total Titles and Chapters, elapsed time for current title, EQ Mode and Loudness setting, current time and <b>Multi-ZONE</b> Indicator.</p> <p>Press the <b>PIC</b> button to bring up the <b>DVD Disc Information</b>.</p> <p>From the remote control: Press the <b>INFO</b> button to bring up the <b>DVD Disc Information</b>.</p>
<p><b>Zoom Mode</b></p>	<p>From the remote control: Press the <b>ZOOM</b> button to activate <b>Zoom Mode</b>. Each subsequent press of the button will change the magnification from normal to 1 to 2 to 3 to 4 and back to normal. When <b>Zoom Mode</b> is active, the arrows on the remote will pan the screen up, down, right and left.</p>
<p><b>DVD Title Menu</b></p>	<p>Touch the Title Menu icon to return to the DVD's main menu.</p> <p>From the remote control: Press <b>TITLE</b> to return to the DVD's main menu. Press <b>ROOT</b> to move up one level on the DVD's menus. (For example, when viewing bonus materials, the <b>ROOT</b> button will return to the bonus menu instead of the main menu.) Pressing <b>ROOT</b> again will usually return to the current chapter.</p> <p><b>Note:</b> On some DVD's the <b>TITLE</b> and <b>ROOT</b> buttons may be reversed.</p>

## DVD Setup Menu - Language

### LANGUAGE Setup Menu

**Note:**  
A DVD disc must be inserted to access these functions and features.

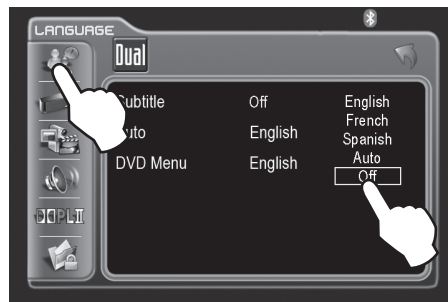
With the unit in DVD mode, press AREA A (top left screen) to display the MAIN menu. Press DVD Setup to access the DVD setup menu.



Press the **LANGUAGE** icon to select **LANGUAGE** setup page.

### Disc Subtitle

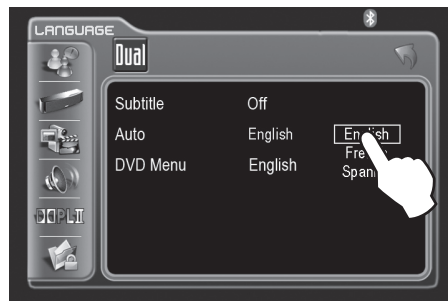
Press to select desired disc subtitle language.



English  
French  
Spanish  
Auto  
Off = DEFAULT

### Audio Language

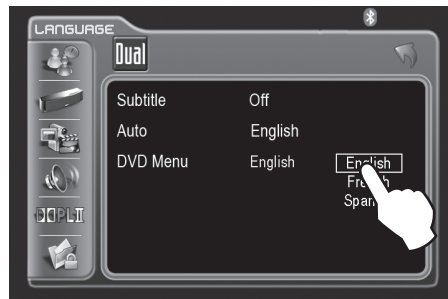
Press to select desired disc audio language.



English = DEFAULT  
French  
Spanish

### DVD Menu

Press to select desired disc menu language.



English = DEFAULT  
French  
Spanish

# DVD Setup Menu - Audio

## Audio Setup Menu

**Note:**

A DVD disc must be inserted to access these functions and features.

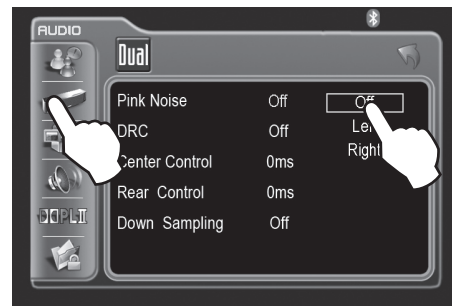
With the unit in DVD mode, press AREA A (top left screen) to display the MAIN menu. Press **DVD Setup** to access the DVD setup menu.



Press the **AUDIO** icon to select from the following menus:

### Pink Noise

Press to activate pink noise generator for the desired channel. The pink noise generator is used to set the relative speaker levels for multi-channel playback.



#### Downmix (2-channel) Settings

Off = DEFAULT

Left

Right

#### Full 6CH (6-channel) Settings

Off = DEFAULT

Left

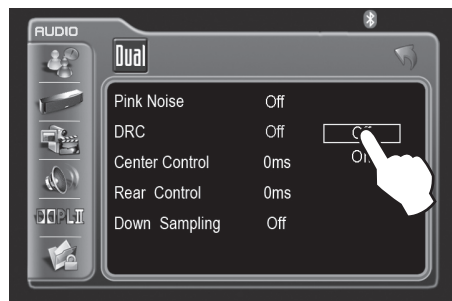
Right

Left Surround

Right Surround

### Dynamic Range Control

Select On to activate dynamic range control.



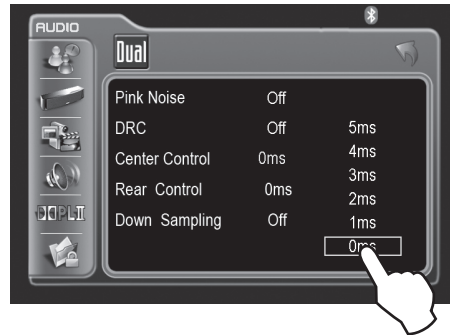
Off = DEFAULT

On

## DVD Setup Menu - Audio

### Center Control

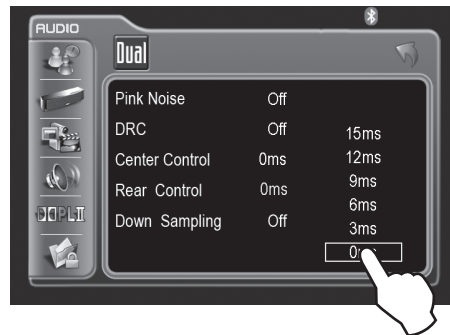
Press to select desired center channel time delay. The distance is defined in milliseconds.



- 5ms
- 4ms
- 3ms
- 2ms
- 1ms
- 0ms = DEFAULT

### Rear Control

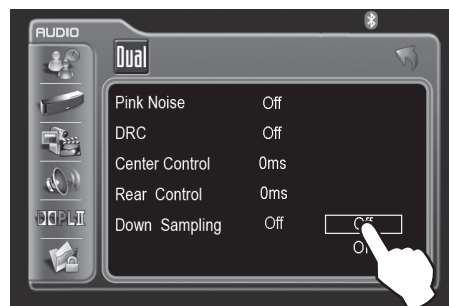
Press to select desired rear channel time delay. The distance is defined in milliseconds.



- 15ms
- 12ms
- 9ms
- 6ms
- 3ms
- 0ms = DEFAULT

### Down Sampling

Select On to activate audio down sampling. The DVD audio output will be downsampled to 48kHz. The original sampling frequency is preserved when Off is selected.



- Off = DEFAULT
- On



# DVD Setup Menu - Video

## Video Setup Menu

**Note:**

A DVD disc must be inserted to access these functions and features.

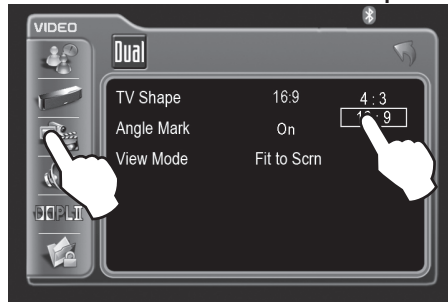
With the unit in DVD mode, press AREA A (top left screen) to display the MAIN menu. Press **DVD Setup** to access the DVD setup menu.



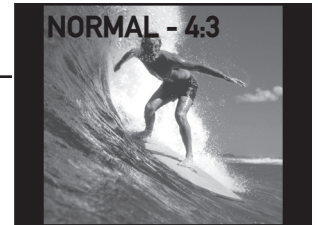
Press the **VIDEO** icon to select from the following menus:

### TV Shape

Press to select desired TV shape.

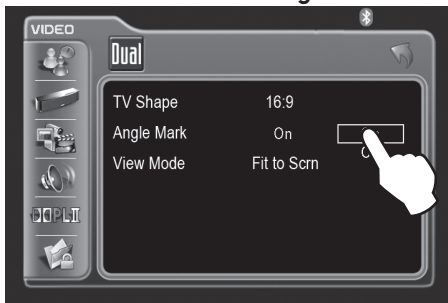


4:3  
16:9 = DEFAULT



### Angle Mark

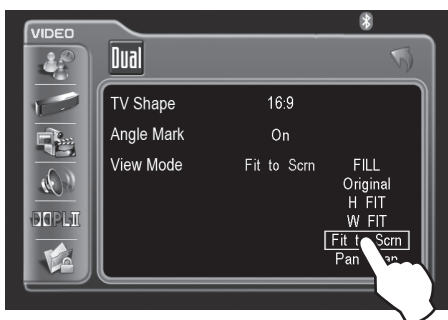
Select On to activate angle mark.



On = DEFAULT  
Off

### View Mode

Press to select desired view mode.



FILL  
Original  
H FIT  
W FIT  
FIT to Screen = DEFAULT  
Pan Scan

## DVD Setup Menu - Speaker

### Speaker Setup Menu

**Note:**

A DVD disc must be inserted to access these functions and features.

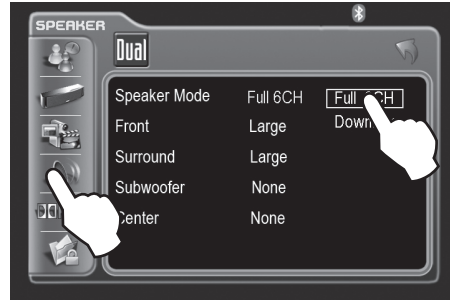
With the unit in DVD mode, press AREA A (top left screen) to display the MAIN menu. Press **DVD Setup** to access the DVD setup menu.



Press **SPEAKER** icon to select from the following menus:

### Speaker Mode

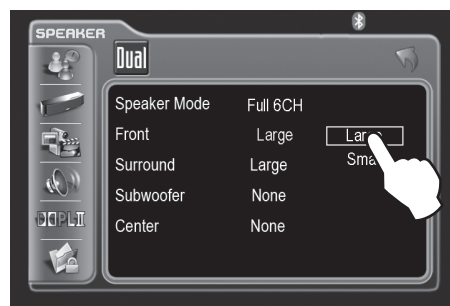
Select desired speaker output mode.



Full 6CH  
DownMix = DEFAULT

### \*Front Speaker Size

Select size of front speaker.



Large = DEFAULT  
Small

Note: \*Full 6CH mode must be selected to adjust the front speaker size.

# DVD Setup Menu - Speaker

**\*Surround Speaker Size**

Select size of surround speaker.

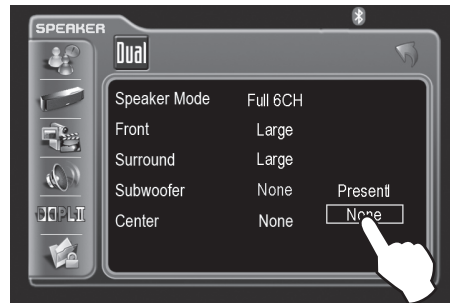
**Note:**  
A DVD disc must be inserted to access these functions and features.



Large = DEFAULT  
Small  
None

**\*Subwoofer Speaker**

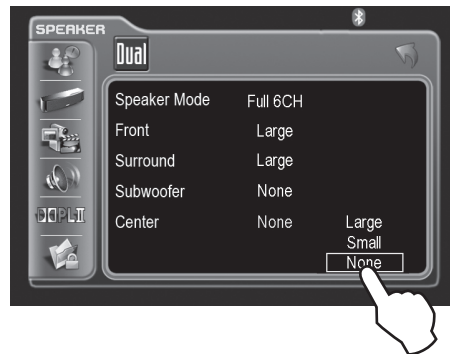
Select Present if a subwoofer is included in your system.



Present  
None = DEFAULT

**\*Center Speaker Size**

Press to select size of center speaker.



Large  
Small  
None = DEFAULT

**Note:** \*Full 6CH mode must be selected to adjust the surround speaker size, subwoofer speaker and center speaker size.

## DVD Setup Menu - Pro Logic II

### Pro Logic II Setup Menu

**Note:**

A DVD disc must be inserted to access these functions and features.

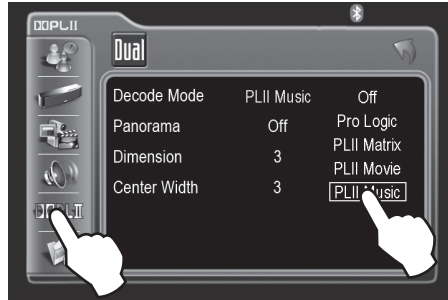
With the unit in DVD mode, press AREA A (top left screen) to display the MAIN menu. Press **DVD Setup** to access the DVD setup menu.



Press the **Pro Logic II** icon to select from the following menus:

### Decode Mode

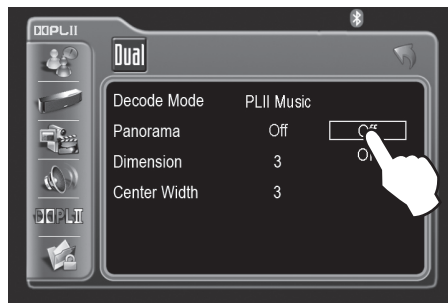
Select desired decode mode.



- Off
- Pro Logic
- PLII Matrix
- PLII Movie
- PLII Music = DEFAULT

### \*Panorama

Select On to activate panorama mode.



- Off = DEFAULT
- On

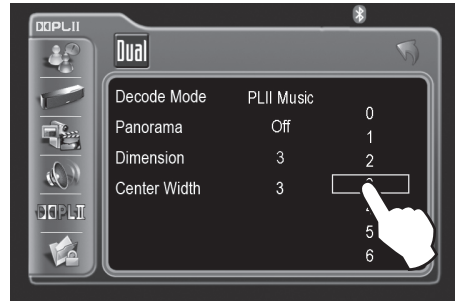
Activating panorama mode extends the front stereo image to include the surround speakers for a wraparound effect.

Note: \*PLII Music decode mode must be selected to activate panorama mode.

# DVD Setup Menu - Pro Logic II

**\*Dimension** Select desired dimension.

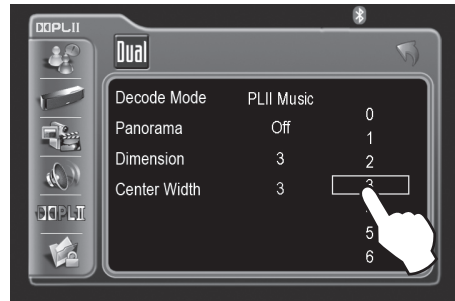
**Note:**  
A DVD disc must be inserted to access these functions and features.



- 0
- 1
- 2
- 3 = DEFAULT
- 4
- 5
- 6

Changing the dimension control allows you to adjust the soundstage either towards the front or towards the rear.

**\*Center Width** Select desired center channel width.



- 0
- 1
- 2
- 3 = DEFAULT
- 4
- 5
- 6

Changing the center width control allows adjustment of the center image so it may be heard only from the center speaker (if equipped), only from the Left/Right speakers as a "phantom" center image, or various combinations of all three front speakers.

**Note:** \*PLII Music decode mode must be selected to adjust the dimension and center width.

## DVD Setup Menu - Rating

### Rating Setup Menu

**Note:**

A DVD disc must be inserted to access these functions and features.

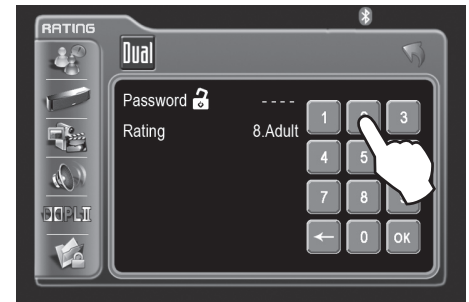
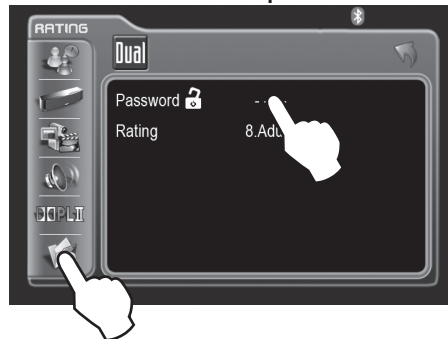
With the unit in DVD mode, press AREA A (top left screen) to display the MAIN menu. Press **DVD Setup** to access the DVD setup menu.



Press the **RATING** icon to select from the following menus:

### Enable Parental Lock Password

Press ---- to enter a password.

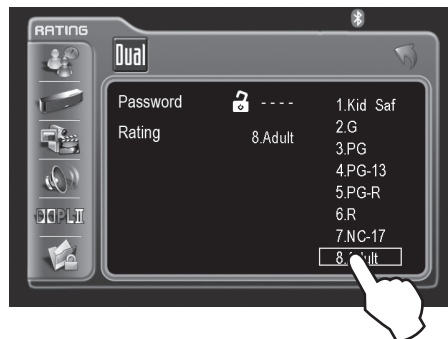


### Setting Parental Lock Password

1. Enter a 4-digit code
2. Write the code down
3. Save in a safe place

### Rating Setting

When unlock symbol is displayed, select desired rating.



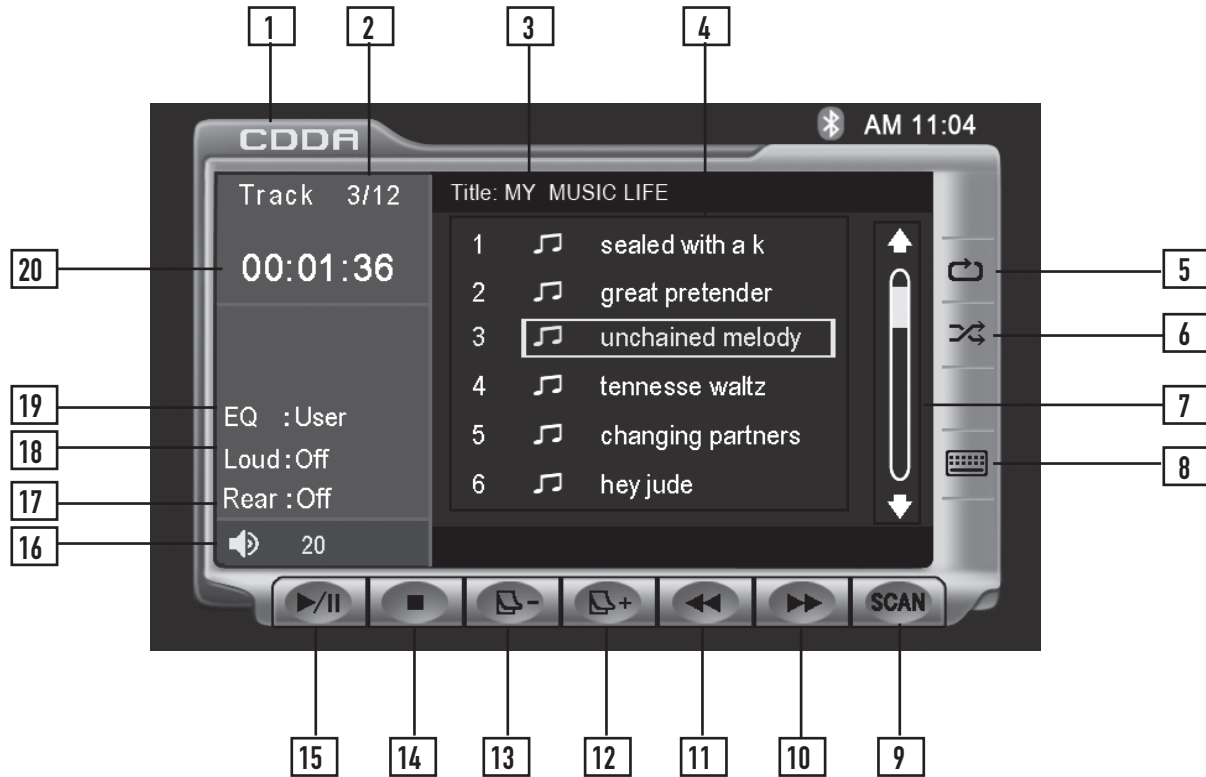
1. Kid Safe
2. G
3. PG
4. PG-13
5. PG-R
6. R
7. NC-17
8. Adult = DEFAULT

### Parental Password Override

In the event you forget or lose your **PARENTAL LOCK** password, enter 9991.










# CD Operation - OSD Overview



- |                |  |
|----------------|--|
| <b>CD Mode</b> | From the main menu, touch the <b>DISC</b> icon on the screen, or press the <b>DVD</b> button to select CD mode.                  |
| <b>1</b>       | <b>Current Source Indicator</b><br>Displays Source Currently Playing   |
| <b>2</b>       | <b>Track Number Indicator</b><br>Displays current track number and total number of tracks on the disc.                           |
| <b>3</b>       | <b>Disc Title Indicator</b><br>Displays current disc title when available.   |
| <b>4</b>       | <b>Track Title List</b><br>Displays up to 6 tracks on the disc in order, with track title, when available.                       |
| <b>5</b>       | <b>Repeat</b><br>Touch the  icon to repeat current track. This icon will remain highlighted until touched to disable.            |
| <b>6</b>       | <b>Shuffle</b><br>Touch the  icon to shuffle all tracks on the disc. This icon will remain highlighted until touched to disable. |

## CD Operation - OSD Overview



- 7** Scroll bar  
Allows scrolling of track list.
- 8** Direct Select Keyboard  
Touch the  icon to display a numeric keyboard. Enter desired track number and touch **OK** to select it.
- 9** Track Scan  
Touch the **SCAN** icon to listen to 10 seconds of each track in order. This icon will remain highlighted until touched to disable.
- 10** Fast Forward  
Touch the  icon to fast forward at 2x speed. Each touch changes speed from 2x to 4x to 8x to 20x then to 1x play.
- 11** Fast Reverse  
Touch the  icon to fast reverse at 2x speed. Each touch changes speed from 2x to 4x to 8x to 20x then to 1x play.
- 12** Page Up  
Touch the + icon to see the next 6 tracks on the disc.
- 13** Page Down  
Touch the - icon to see the previous 6 tracks on the disc.
- 14** Stop  
Touch the  icon to stop the song where it is.
- 15** Play/Pause  
Touch the  icon to temporarily stop or resume playback.
- 16** Volume Indicator  
Indicates current volume level, controlled by rotary encoder.
- 17** Multi-Zone Indicator  
Displays current status of **Multi-Zone** mode.
- 18** Loudness Indicator  
Touch screen here to enter Audio Setup Menu.
- 19** EQ Indicator  
Touch screen here to enter Audio Setup Menu.
- 20** Track Time Indicator  
Shows how much time has elapsed in the current track.





# CD Operation

## Playing CD-DA discs

After inserting a CD disc, files will play in numerical order in the directory.



## Selecting by Keypad

Touch to display keypad. Enter desired track number and press OK.



## Selecting by Direct Track Access

Touch desired track for DIRECT TRACK access.




## Previous/Next Page

Touch to view UP/DOWN pages of available tracks.



## CD Operation



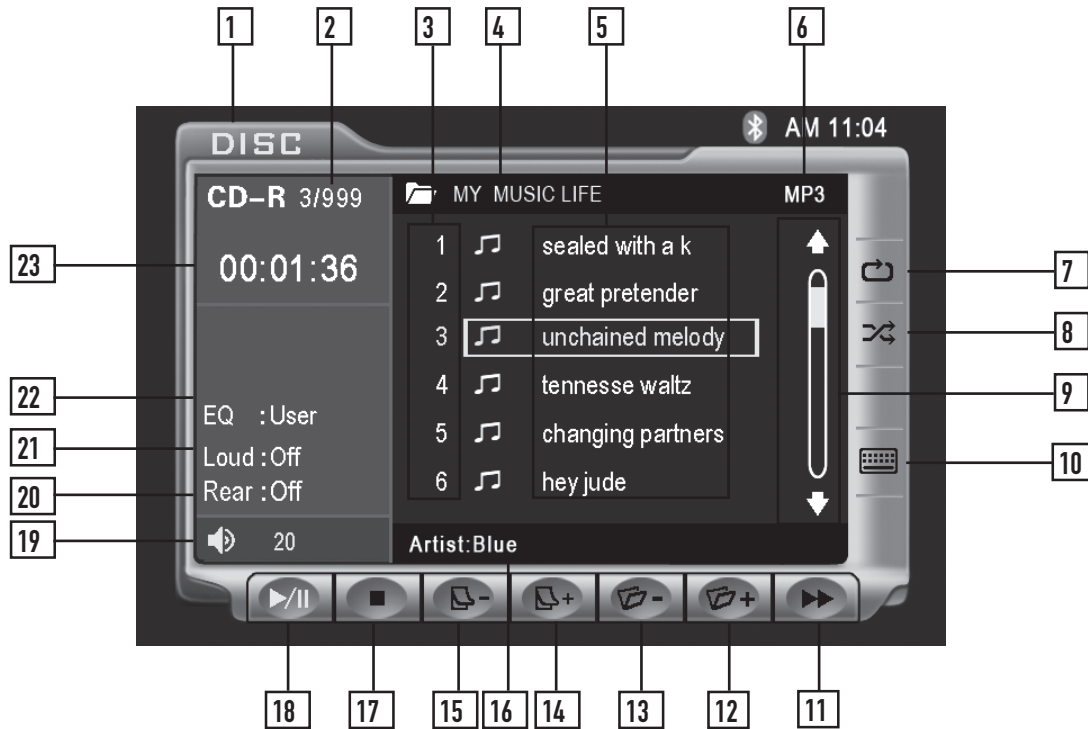
<b>Page Up/Down</b>	<p>The Page Up and Page Down on-screen buttons can be used to see the rest of the tracks on the CD. Use the Direct Select method to play a desired track.</p> <p>From the remote control: Press ► to display the next page. Press ◀ to display the previous page.</p>
<b>Track Select</b>	<p>Press ▲ button to skip to the next track. Press ▼ button to skip to the previous track.</p> <p>From the remote control: Press ►► to skip to the next track. Press ◀◀ to skip to the previous track.</p> <p><b>Note:</b> Press ◀◀ or ▼ button once will return to the beginning of the current track. Press it a second time to skip to the previous track.</p>
<b>Direct Select</b>	<p>To select a desired track from the track title list, touch any track on the list.</p> <p>Use the up and down arrows on screen to scroll through the tracks. Once highlighted, simply touch the screen at the appropriate track.</p> <p>Press Rapid Dial rotary encoder once.</p> <ul style="list-style-type: none"><li>• Select desired track by rotating clockwise or counter-clockwise.</li><li>• Press to confirm/ENTER.</li></ul> <p>From the remote control: Press ▲ or ▼ to scroll through the tracks. When the correct track is highlighted press OK.</p>
<b>Direct Track Entry</b>	<p>Touch the  icon to display a numeric keyboard. Enter desired track number and touch OK to select it.</p> <p>From the remote control: Use the numeric keypad to enter the desired track number.</p>
<b>Play Control</b>	<p>You can use the Fast Forward or Fast Reverse on-screen buttons to speed up the playback of a track. Each subsequent press of the button will change the speed from normal to 2x to 4x to 8x to 20x and back to 1x.</p> <p>Hold the ▲ button to fast forward. Hold the ▼ button to fast reverse.</p> <p>From the remote control: Press ►► to fast forward. Press ◀◀ to fast reverse.</p>



## CD Operation

<b>Shuffle Mode</b>	<p>Touch the Shuffle button to shuffle all of the tracks on the CD. The Shuffle button will be illuminated while <b>Shuffle Mode</b> is active. When the button is illuminated, touching it a second time will disable <b>Shuffle Mode</b>.</p> <p><b>Notes:</b> The shuffled order of the songs is fixed, therefore the Track Select operations will continue to operate properly within the shuffled order. Therefore using <b>Next Track</b> will move to the next shuffled track, while <b>Previous Track</b> will return to the start of the current track and then a second press will return to the previously played track.</p>
<b>Repeat Mode</b>	<p>Touch the Repeat button to repeat a track. When <b>Repeat Mode</b> is active, the Repeat button will be illuminated, and touching it again will disable <b>Repeat Mode</b>.</p> <p>From the remote control: Press  to select Repeat. Press it a second time to disable Repeat.</p> <p><b>Note:</b> <b>Shuffle</b> and <b>Repeat</b> modes can not be used simultaneously and engaging one mode will cancel the other mode (if active.)</p>
<b>Scan Mode</b>	<p>Touch <b>SCAN</b> on the screen to listen to all tracks on the CD for 10 seconds at a time, starting from the first track on the CD. The Scan button will be illuminated while <b>Scan Mode</b> is active. When the button is illuminated, touching it a second time will disable <b>Scan Mode</b>.</p> <p>From the remote control: Press <b>TITLE</b> to activate and disable <b>Scan Mode</b>.</p>
<b>Play/Pause</b>	<p>Touching Play/Pause will temporarily stop playback of the current track. Touching it again will resume playback.</p> <p>Press <b>PLAY/PAUSE</b> to pause or resume the song.</p> <p>From the remote control: Press <b>OK</b> to temporarily stop and resume playback.</p>
<b>Stop</b>	<p>Touch Stop to stop playback of the current track. Pressing Play at this point will resume playback. If Stop is touched a second time, then playback stops completely and will restart from the beginning of the CD.</p> <p>From the remote control: Press  to stop playback of the current song.</p>

## MP3/WMA Operation - OSD Overview









### MP3/WMA Mode

From the main menu, touch the **DISC** icon on the screen, or press the **DVD** button to select MP3/WMA mode.

- 1** Current Source Indicator  
Displays source currently playing.
- 2** Song Number Indicator  
Displays current song number and total number of songs on the disc.
- 3** Master Song Number List  
Shows the number of the song relative to the entire disc.
- 4** Folder  
Displays the name of the currently selected folder.
- 5** Filename List  
Displays up to 6 songs in the current folder in order, with filename.
- 6** File Type Indicator  
Displays type of song file, either **MP3** or **WMA**.
- 7** Repeat  
Touch icon to repeat current song or folder. This icon will remain highlighted until touched a third time to disable.
- 8** Shuffle  
Touch icon to shuffle all songs on the disc. This icon will remain highlighted until touched to disable.




## MP3/WMA Operation - OSD Overview

- 9 Scroll bar  
Allows scrolling of song list.
- 10 Direct Select Keyboard  
Touch the  icon to display a numeric keyboard. Enter desired song number and touch **OK** to select it.
- 11 Fast Forward  
Touch  icon to fast forward at 2x speed.  
Each touch changes speed from 2x to 4x to 8x to 20x then to 1x play.
- 12 Next Folder  
Pressing this button will select the next available folder.
- 13 Previous Folder  
Pressing this button will select the previous available channel.
- 14 Page Up  
Touch the + icon to see the next 6 songs in the folder.
- 15 Page Down  
Touch the - icon to see the previous 6 songs in the folder.
- 16 Information  
Displays available information for the current song.
- 17 Stop  
Touch  icon to stop the song where it is.
- 18 Play / Pause  
Touch  icon to temporarily stop or resume playback.
- 19 Volume Indicator  
Indicates current volume level, controlled by rotary encoder.
- 20 Multi-Zone Indicator  
Displays current status of **Multi-Zone** mode.
- 21 Loudness Indicator  
Touch screen here to enter the Audio Setup Menu.
- 22 EQ indicator  
Touch screen here to enter the Audio Setup Menu.
- 23 Elapsed Time Indicator  
Shows the elapsed time of the current song.

## MP3/WMA Operation



<b>Folder Select</b>	<p>From the remote control: Press ► to display the next page. Press ◀ to display the previous page.</p>
<b>Page Up/Down</b>	<p><b>Note:</b> Continued operation of the Page Up and Page Down buttons will display the next and previous folders, respectively once the songs in the current folder have all been displayed.</p> <p>Note that the Folder Select and Page Up/Down buttons will not select a song, but simply display more songs on the disc, and if another song is not selected within 5 seconds of the last press then the screen will return to the currently playing song/folder.</p>
<b>Song Select</b>	<p>Press ▲ button to skip to the next song. Press ▼ button to skip to the previous song.</p> <p>From the remote control: Press ►► to skip to the next song. Press ◀◀ to skip to the previous song.</p> <p><b>Note:</b> Pressing the ◀◀ or ▲ button once will return to the beginning of the current song. Pressing it a second time will skip to the previous song.</p>
<b>Direct Select</b>	<p>To select a desired song from the filename list, touch any of the displayed filenames from the list.</p> <p>Use the up and down arrows on screen to scroll through the songs. Once highlighted, simply touch the screen at the appropriate name.</p> <p>Press Rapid Dial rotary encoder once.</p> <ul style="list-style-type: none"><li>• Select desired track by rotating clockwise or counter-clockwise.</li><li>• Press to confirm/ENTER.</li></ul> <p>From the remote control: Press ▲ or ▼ to scroll through the songs. When the correct song is highlighted press OK.</p>
<b>Direct Song Entry</b>	<p>Touch the  icon to display a numeric keyboard. Enter desired song number and touch OK to select it.</p> <p>From the remote control: Use the numeric keypad to enter the desired song number.</p>



## MP3/WMA Operation

### Song Control

You can use the Fast Forward on-screen button to speed up the playback of a song. Each subsequent press of the button will change the speed from normal to 2x to 4x to 8x to 20x and back to 1x.

Hold the ▲ button to fast forward.  
Hold the ▼ button to fast reverse.

From the remote control:  
Press ►► to fast forward.  
Press ◀◀ to fast reverse.

**Note:** Song control only works for MP3 type files and there is no audio output while song control is active.

### Shuffle Mode

Touch the Shuffle button to shuffle all of the songs on the disc. The Shuffle button will be illuminated while **Shuffle Mode** is active. When the button is illuminated, touching it a second time will disable **Shuffle Mode**.

**Note:** The shuffled order of the songs is fixed, therefore the Song Select operations will continue to operate properly within the shuffled order. Therefore using **Next Song** will move to the next shuffled song, while **Previous Song** will return to the start of the current song and then a second press will return to the previously played song.

### Repeat Mode

Touch the Repeat button to repeat either a song or folder. The first touch activates **Song Repeat** mode and a second touch activates **Folder Repeat** mode. When either mode is active, the Repeat button will be illuminated, and touching it a third time will disable **Repeat Mode**.

From the remote control:  
Press ⇄ to select Song Repeat, Folder Repeat and Repeat Off modes.

**Note:** **Shuffle** and **Repeat** modes can not be used simultaneously and engaging one mode will cancel the other mode (if active.)

### Play/Pause

Touching Play/Pause will temporarily stop playback of the current song. Touching it again will resume playback.

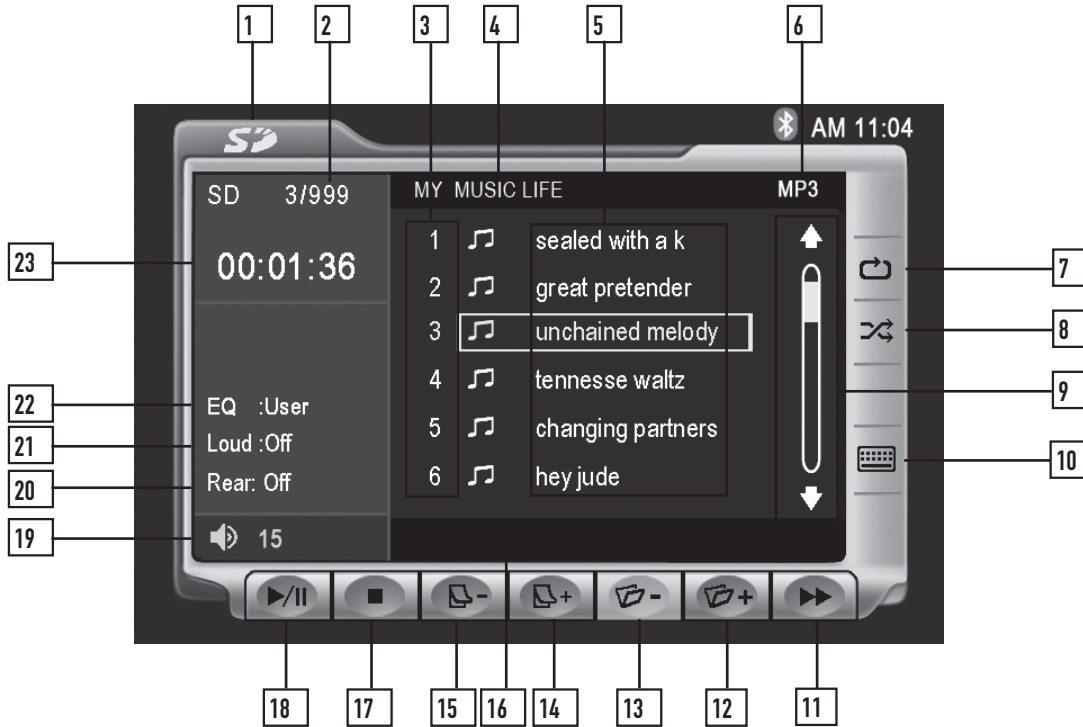
From the remote control:  
Press OK to temporarily stop and resume playback.

### Stop

Touch Stop to stop playback of the current song. Pressing Play at this point will resume or restart playback from the beginning of the current song. If Stop is touched a second time, then playback stops completely and will restart from the beginning of the disc.

From the remote control:  
Press ■ to stop playback of the current song.

## SD Card Operation









- SD Mode** | From the main menu, touch the **SD** icon on the screen.
- 1** | **Current Source Indicator**  
Displays source currently playing.
  - 2** | **Song Number Indicator**  
Displays current song number and total number of songs on the disc.
  - 3** | **Master Song Number List**  
Shows the number of the song relative to the entire disc.
  - 4** | **Folder**  
Displays the name of the currently selected folder.
  - 5** | **Filename List**  
Displays up to 6 songs in the current folder in order, with filename.
  - 6** | **File Type Indicator**  
Displays type of song file, either **MP3** or **WMA**.
  - 7** | **Repeat**  
Touch the icon to repeat current song or folder. This icon will remain highlighted until touched a third time to disable.
  - 8** | **Shuffle**  
Touch the icon to shuffle all songs on the disc. This icon will remain highlighted until touched to disable.






## SD Card Operation

- |    |  |
|----|--|
| 9  | <b>Scroll bar</b><br>Allows scrolling of song list.  |
| 10 | <b>Direct Select Keyboard</b><br>Touch the  icon to display a numeric keyboard. Enter desired song number and touch <b>OK</b> to select it. |
| 11 | <b>Fast Forward</b><br>Touch the  icon to fast forward at 2x speed.<br>Each touch changes speed from 2x to 4x to 8x to 20x then to 1x play. |
| 12 | <b>Next Folder</b><br>Pressing this button will select the next available folder.  |
| 13 | <b>Previous Folder</b><br>Pressing this button will select the previous available channel.   |
| 14 | <b>Page Up</b><br>Touch the  + icon to see the next 6 songs in the folder.   |
| 15 | <b>Page Down</b><br>Touch the  - icon to see the previous 6 songs in the folder.  |
| 16 | <b>Information</b><br>Displays available information for the current song.   |
| 17 | <b>Stop</b><br>Touch the  icon to stop the song where it is.  |
| 18 | <b>Play / Pause</b><br>Touch the  icon to temporarily stop or resume playback.  |
| 19 | <b>Volume Indicator</b><br>Indicates current volume level, controlled by rotary encoder.   |
| 20 | <b>Multi-Zone Indicator</b><br>Displays current status of <b>Multi-Zone</b> mode.  |
| 21 | <b>Loudness Indicator</b><br>Touch screen here to enter the Audio Setup Menu.  |
| 22 | <b>EQ indicator</b><br>Touch screen here to enter the Audio Setup Menu.  |
| 23 | <b>Elapsed Time Indicator</b><br>Shows the elapsed time of the current song.   |

## SD Card Operation



<b>Folder Select</b>	<p>From the remote control: Press ► to display the next page. Press ◀ to display the previous page.</p>
<b>Page Up/Down</b>	<p><b>Note:</b> Continued operation of the Page Up and Page Down buttons will display the next and previous folders, respectively once the songs in the current folder have all been displayed.</p> <p>Note that the Folder Select and Page Up/Down buttons will not select a song, but simply display more songs on the disc, and if another song is not selected within 5 seconds of the last press then the screen will return to the currently playing song/folder.</p>
<b>Song Select</b>	<p>Press ▲ button to skip to the next song. Press ▼ button to skip to the previous song.</p> <p>From the remote control: Press ►► to skip to the next song. Press ◀◀ to skip to the previous song.</p> <p><b>Note:</b> Pressing the ◀◀ or ▲ button once will return to the beginning of the current song. Pressing it a second time will skip to the previous song.</p>
<b>Direct Select</b>	<p>To select a desired song from the filename list, touch any of the displayed filenames from the list.</p> <p>Use the up and down arrows on screen to scroll through the songs. Once highlighted, simply touch the screen at the appropriate name.</p> <p>Press Rapid Dial rotary encoder once.</p> <ul style="list-style-type: none"><li>• Select desired track by rotating clockwise or counter-clockwise.</li><li>• Press to confirm/ENTER.</li></ul> <p>From the remote control: Press ▲ or ▼ to scroll through the songs. When the correct song is highlighted press OK.</p>
<b>Direct Song Entry</b>	<p>Touch the  icon to display a numeric keyboard. Enter desired song number and touch OK to select it.</p> <p>From the remote control: Use the numeric keypad to enter the desired song number.</p>



## SD Card Operation

### Song Control

You can use the Fast Forward on-screen button to speed up the playback of a song. Each subsequent press of the button will change the speed from normal to 2x to 4x to 8x to 20x and back to 1x.

Hold the ▲ button to fast forward.  
Hold the ▼ button to fast reverse.

From the remote control:  
Press ►► to fast forward.  
Press ◀◀ to fast reverse.

**Note:** Song control only works for MP3 type files and there is no audio output while song control is active.

### Shuffle Mode

Touch the Shuffle button to shuffle all of the songs on the disc. The Shuffle button will be illuminated while **Shuffle Mode** is active. When the button is illuminated, touching it a second time will disable **Shuffle Mode**.

**Note:** The shuffled order of the songs is fixed, therefore the Song Select operations will continue to operate properly within the shuffled order. Therefore using **Next Song** will move to the next shuffled song, while **Previous Song** will return to the start of the current song and then a second press will return to the previously played song.

### Repeat Mode

Touch the Repeat button to repeat either a song or folder. The first touch activates **Song Repeat** mode and a second touch activates **Folder Repeat** mode. When either mode is active, the Repeat button will be illuminated, and touching it a third time will disable **Repeat Mode**.

From the remote control:  
Press ↻ to select Song Repeat, Folder Repeat and Repeat Off modes.

**Note:** **Shuffle** and **Repeat** modes can not be used simultaneously and engaging one mode will cancel the other mode (if active.)

### Play/Pause

Touching Play/Pause will temporarily stop playback of the current song. Touching it again will resume playback.

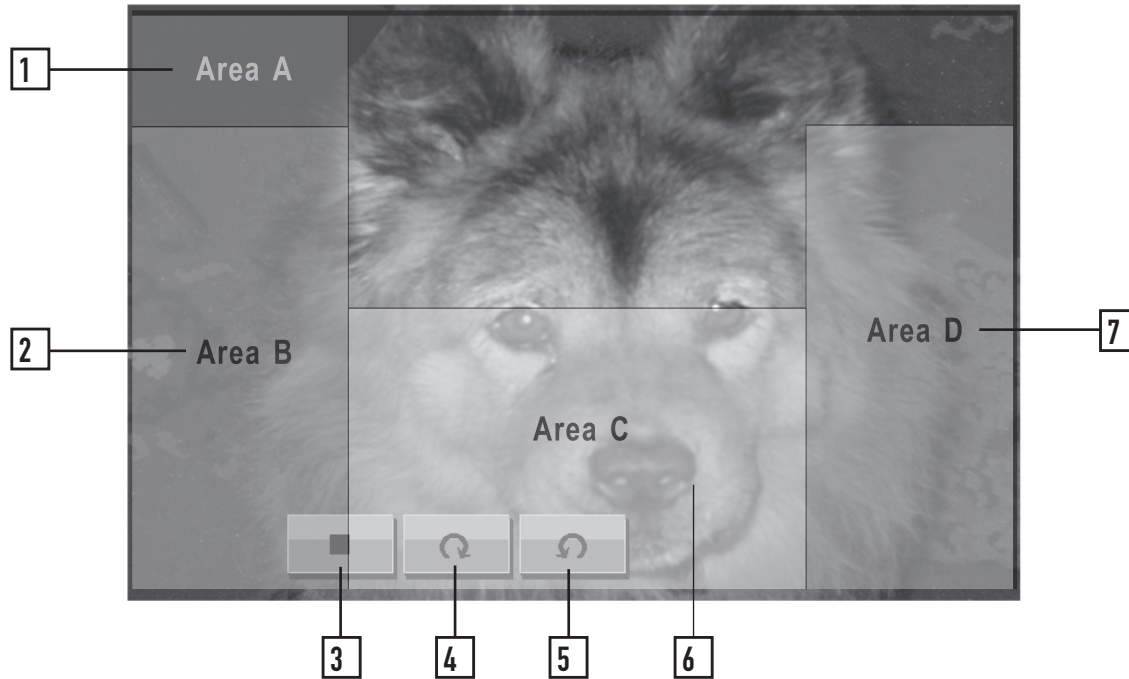
From the remote control:  
Press OK to temporarily stop and resume playback.

### Stop

Touch Stop to stop playback of the current song. Pressing Play at this point will resume or restart playback from the beginning of the current song. If Stop is touched a second time, then playback stops completely and will restart from the beginning of the disc.

From the remote control:  
Press ■ to stop playback of the current song.

## JPEG Operation - OSD Overview



### JPEG Mode

JPEG mode works a bit differently from the other modes. There is no separate JPEG mode, rather this mode is accessed within either SD mode or MP3/WMA mode. Whenever a picture is present on an SD card or CD, the unit will switch to the JPEG mode to view it. Each picture is displayed on the screen for 5 seconds, unless paused. JPEG mode will automatically exit when the next file is not a picture, or when **STOP** is pressed.

- 1** Touching this zone will bring up the Main Menu for the unit.
- 2** Touching this zone will skip to the previous file.
- 3** Stop  
Touch ■ to stop viewing at the current file.
- 4** Rotate Right  
Touch ↻ to rotate the image 90° clockwise.
- 5** Rotate Left  
Touch ↺ to rotate the image 90° counterclockwise.
- 6** Touching this zone will bring up the on-screen buttons (3, 4 & 5).
- 7** Touching this zone will skip to the next file.



## JPEG Operation

### Play/Pause

Press **PLAY/PAUSE** to stop the viewer on a specific picture or to resume.

From the remote control:

Press **OK** to temporarily stop and resume the viewer.

**Note:** Unlike the music player, when the viewer is paused, moving to the next or previous picture will not automatically resume the slideshow.

### Next/Previous

Touch Area D to skip to the next file/image.

Touch Area B to skip to the previous file/image.

Press **▲** to skip to the next file/image.

Press **▼** to skip to the previous file/image.

From the remote control:

Press **▶▶** to skip to the next file/image.

Press **◀◀** to skip to the previous file/image.

### Stop

Touch **■** to stop the viewer and return to the filename list. Pressing Play at this point will resume playback from the current picture. If Stop is touched a second time, then playback stops completely and will restart from the beginning of the disc/card.

From the remote control:

Press **■** to stop the viewer.

### Rotate Right/Left

Touch **↻** or **↺** to rotate the image 90° clockwise or counterclockwise.

From the remote control:

Press **ANGLE** to rotate the image 90° clockwise.

### Zoom Mode

From the remote control:

Press the **ZOOM** button to activate **Zoom Mode**.

Each subsequent press of the button will change the magnification from normal to 4/3 to 3/2 to 2 to 3 to 1/2 to 3/4 and back to normal.

When **Zoom Mode** is active, and the image is larger than the screen, the arrows on the remote will pan the screen up, down, right and left.

**Note:** **Zoom Mode** is only active when the viewer is paused.

### Thumbnail View

From the remote control:

Press **TITLE** to activate **Thumbnail View**.

The screen will display up to 9 mini-pictures at a time, starting from the current picture. Select desired picture with the arrows and press **OK** to view.

**Next** and **Previous** will display more mini-pictures, if available.



## Media Compatibility

### Media Compatibility

The following types of discs/files are compatible:

- CD-ROM (ISO), CD-R, CD-RW, DVD+R/RW, DVD-R/RW
- CD-DA, DVD Video
- MP3 data
- WMA data
- JPG images

The following types of discs/files are not compatible:

- WMA files that are protected by DRM (Digital Rights Management)
- WMA lossless format
- Discs recorded with Track At Once or packet writing
- MP3 PRO format
- MP3 playlists
- WAV format
- WMV format
- DivX format
- AVI format
- MPG format

Some recordable DVDs and CDs may be incompatible with this unit, depending on media type and recording method.

### Playback Order

MP3/WMA playback sequence is based on recorded order of files and begins in the root folder of the disc. Any empty folders or folders that do not include MP3/WMA files are skipped. This unit may not play files in the order they were recorded in. Refer to your recording software's user's manual for more information.

### Compatible Recording Formats

- ISO9660 level 1
- ISO9660 level 2
- Yellow Book MODE 1
- Yellow Book MODE 2 FORM 1
- Multi session
- Maximum files - 1500
- Maximum folder levels - 8
- MPEG-1/2 Audio Layer-3

ISO9660 standards:

- Maximum nested folder depth is 8 (including the root folder).
- Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and "\_" (underscore). Some characters may not be displayed correctly, depending on the character type.
- This device can play back discs in Joliet and other standards that conform to ISO9660. MP3/WMA written in the formats other than the above may not play and/or their file names or folder names may not be displayed properly.

## Media Compatibility

### Additional MP3/WMA Information

An internal buffer provides ESP (Electronic Skip Protection) to virtually eliminate skipping.

When playing a disc recorded with regular audio files (CD-DA or .WAV) and MP3/WMA files, the unit will play the MP3/WMA files only.

Only MP3 files with filename extension (.mp3) can be played.  
Only WMA files with filename extension (.wma) can be played.

Do not attempt to play discs which contain non-MP3/WMA files with the MP3/WMA extension.

### Sampling Frequency Rates

**MP3** 32kHz ~ 48kHz

**WMA** 32kHz ~ 48kHz

### Transfer Bit rates

**MP3** 40kbps ~ 320kbps constant  
Variable bit rates

**WMA** 40kbps ~ 192kbps constant  
Variable bit rates

#### Note:

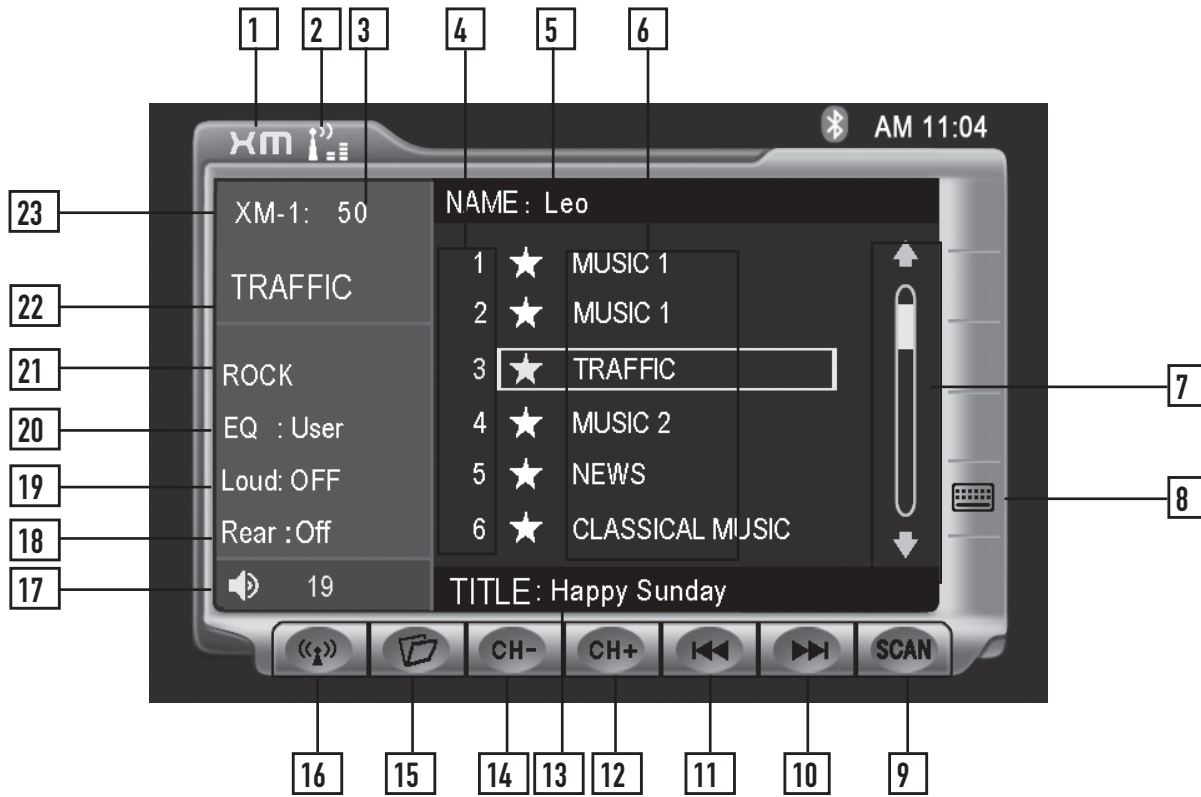
Some files may not play or be displayed correctly, depending on sampling rates and bit rates.

### Recommended Settings

For best results, use the following settings when burning an MP3 disc:  
128kbps or higher constant bit rate  
44.1kHz or higher sampling frequency

For best results, use the following settings when burning a WMA disc:  
64kbps or higher constant bit rate  
44kHz or higher sampling frequency

## XM Radio - OSD Overview (Optional)



- 23** XM-1: 50
  - 22** TRAFFIC
  - 21** ROCK
  - 20** EQ : User
  - 19** Loud: OFF
  - 18** Rear : Off
  - 17** 19
  - 16** NAME : Leo
  - 15** 1 ★ MUSIC 1
  - 14** 2 ★ MUSIC 1
  - 13** 3 ★ TRAFFIC
  - 12** 4 ★ MUSIC 2
  - 11** 5 ★ NEWS
  - 10** 6 ★ CLASSICAL MUSIC
  - 9** TITLE : Happy Sunday
  - 7** [Scroll Bar]
  - 8** [Touchscreen Area]
- XM Mode** From the main menu, touch the **XM** icon on the screen.
- 1** **Current Source Indicator**  
Displays source currently playing.
  - 2** **Signal Strength Indicator**  
Displays the strength of XM reception.
  - 3** **Current Station Indicator**  
Displays the current XM channel number.
  - 4** **Channel Number/Preset Number List Display**  
**Standard mode:** Shows a list of the available XM channels.  
**Preset mode:** Shows the preset list by preset number.
  - 5** **Name**  
Displays the name of the artist of the current song.
  - 6** **Channel List/Preset list Display**  
**Standard mode:** Shows the names of the XM channels.  
**Preset mode:** Shows the names of the stored presets.  
Touch screen to select a channel. Touch and hold screen to store presets in Preset mode.
  - 7** **Display Scroll Bar**  
Allows scrolling of channel list.





## XM Radio - OSD Overview (Optional)

- |   |   |
|---|---|
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">8</div>  | <b>Direct Select Keyboard</b><br>Displays on-screen keyboard to select a channel by number.   |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">9</div>  | <b>Channel Scan</b><br>Pressing this button will scan through all available channels, starting from the current channel, pausing for 10 seconds on each channel.  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">10</div> | <b>Category Next Channel</b><br>Pressing this button will select the next available channel in the current category.  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">11</div> | <b>Category Previous Channel</b><br>Pressing this button will select the previous available channel in the current category.  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">12</div> | <b>Next Channel</b><br>Pressing this button will select the next available channel. (This function can also be performed by pressing ▲.)  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">13</div> | <b>Title</b><br>Displays the title of the current song.   |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">14</div> | <b>Previous Channel</b><br>Pressing this button will select the previous available channel. (This function can also be performed by pressing ▼.)  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">15</div> | <b>Category View</b><br>Pressing this button will display a list of available categories. A channel can then be selected within a specific category.  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">16</div> | <b>Preset Bank Select</b><br>Pressing this button in <b>Standard mode</b> will select <b>Preset mode</b> and display the first bank of 12 presets. Each subsequent press will change to the next bank: XM-1, XM-2, XM-3, then back to XM <b>Standard mode</b> . |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">17</div> | <b>Volume Indicator</b><br>Indicates current volume level, controlled by rotary encoder.  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">18</div> | <b>Multi-Zone Indicator</b><br>Displays current status of <b>Multi-Zone</b> mode.   |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">19</div> | <b>Loudness Indicator</b><br>Touch screen here to enter the Audio Setup Menu.   |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">20</div> | <b>EQ indicator</b><br>Touch screen here to enter the Audio Setup Menu.   |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">21</div> | <b>Current Category Indicator</b><br>Shows the category of the current channel.   |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">22</div> | <b>Current Station Name</b><br>Displays the name of current channel.  |
| <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 5px;">23</div> | <b>Bank Indicator</b><br>Shows which bank is currently displayed.   |

## XM Radio Operation (Optional)



### Activating Your XM Tuner (when connected)


1. Select XM mode.
2. Verify channel 1 (XM Preview Channel) is playing.
3. Select Channel 0. The XM tuner's eight character Radio ID number will appear at the top of the screen.  
The Radio ID number is also located on the XM tuner (sold separately).
4. Record the number here for future reference:

--	--	--	--	--	--	--	--

5. Activate your XM Satellite Radio service by logging on to <http://www.xmradio.com/activation> or call 1-800-967-2346.



**Note:** You will need to keep your unit turned on for at least one hour after requesting activation to receive the full channel line-up.



### Standard/Preset Mode



Touch  on the screen to switch between **Standard Mode** and **Preset Mode**. In **Standard Mode**, XM is displayed in location 21 on the screen. In **Preset Mode**, location 21 will display either XM-1, XM-2 or XM-3 to denote which preset bank is selected. Each press of the button will change the display from XM to XM-1 to XM-2 to XM-3 and back to XM.

From the remote control:  
Press the **BAND** button.

### Channel Select

Touch **CH+** or press  to select the next channel.  
Touch **CH-** or press  to select the previous channel.

From the remote control:  
Press  to select the next channel.  
Press  to select the previous channel

**Note:** The on-screen  and  buttons will select channels within the current category only.

To select a desired channel from the channel/preset channel list, touch any of the displayed channel names from the list.

### Direct Tuning

Use the up and down arrows on screen to scroll through the channels. Once highlighted, simply touch the screen at the appropriate channel.

Use Rapid Dial rotary encoder to select desired channel.

- Select desired channel by rotating clockwise or counter-clockwise.
- Press to confirm/ENTER.




## XM Radio Operation (Optional)

### Direct Channel Entry

From the remote control:

Press ▲ or ▼ to scroll through the channels. When the desired channel is highlighted press **OK**.

Touch the  icon to display a numeric keyboard. Enter desired channel number and touch **OK** to select it.

From the remote control:

Use the numeric keypad to enter the desired channel number.

### Category Mode

Touch the  icon to display a list of categories.

Once a category is selected, only the channels in that category will be displayed until the icon is touched again. However, the CH- and CH+, as well as the ◀ and ▶ on the remote will cycle through all available channels.

Touch  to exit from **Category Mode**.

To select a desired category from the category list, touch any of the displayed categories from the list.

Use the up and down arrows on screen to scroll through the category list. Once highlighted, simply touch the screen at the appropriate category.

Use Rapid Dial rotary encoder to select desired category.

- Select desired category by rotating clockwise or counter-clockwise.
- Press to confirm/ENTER.

From the remote control:

Press ▲ or ▼ to scroll through the categories. When the desired category is highlighted press **OK**.

### Storing Presets

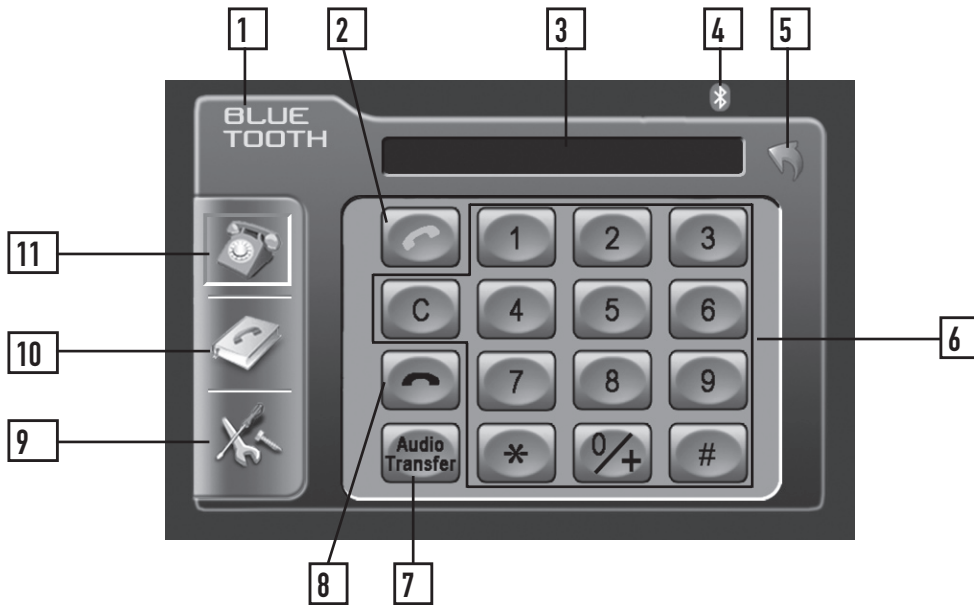
There are 36 presets available in 3 bands.

First, put the unit into **Preset Mode** and select a bank of presets (XM-1, XM-2, or XM-3). After finding a channel that you would like to store in memory, touch and hold the screen on any of the presets in the preset channel list until it turns yellow.

### Channel Scan

Touch **SCAN** on the screen and it will tune you to all channels available for 10 seconds at a time. Touch **SCAN** again to disable. Note that if **Category Mode** is selected, **Channel Scan** will still scan through all available channels, not just the ones displayed on screen.

# Bluetooth® - OSD Overview (Optional)



**Before using the Bluetooth**

Select the Bluetooth option in the General setup and select On to activate the Bluetooth feature. Refer to page 21 for more details.

**Bluetooth Mode**

From the main menu, touch the **Bluetooth** icon on the screen or, press the **Bluetooth** icon at the top of the screen. The Bluetooth function must be turned on for the Bluetooth icon to appear at the top of the screen.

- 1

**Current Source Indicator**  
 Displays source or current mode.
- 2

**Talk button**  
 Press to answer an incoming call or to place an outgoing call.
- 3

**Display Indicator**  
 Phone number display and call status indicator.
- 4

**Bluetooth status indicator**  
 When the Bluetooth function is Off, the indicator is black.  
 When the Bluetooth function is On and no phone is connected (paired) to the unit, the indicator will flash blue.  
 When the Bluetooth function is On and a phone is connected (paired) to the unit, the indicator is blue.
- 5

**Return button**  
 Touch to **RETURN** to previous screen.
- 6

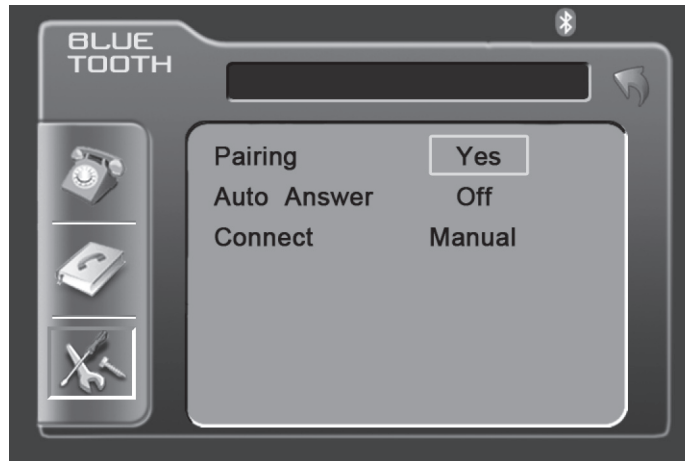
**Keypad interface**  
 Press 0-9, \*, # and + to enter desired phone number.  
 Press C to clear the last digit.



# Bluetooth® - OSD Overview (Optional)

- 7** Audio Transfer Button  
Press to transfer audio between the head unit and mobile phone.
- 8** End button  
Press to end a call in progress or to reject an incoming call.
- 9** Setup Menu Icon  
Press to access Bluetooth setup menu.
- 10** Phone book Icon  
Press to access the phone book menu.
- 11** Keypad Interface Icon  
Press to display the keypad interface.

## Bluetooth Setup Menu



Bluetooth Setup Menu matrix

Settings	Default	Options	Function
Pairing	Yes	Yes (Pair)	Press Yes to begin the pairing function. Press Yes again to cancel the pairing process. See page 77 for more details.
Auto Answer	Off	Off	You must press the Talk button to answer an incoming call.
		On	The head unit will automatically answer incoming calls.
Connect	Manual	Manual	You must connect the phone to the head unit manually each time.
		Auto	The head unit will automatically connect to a previously paired phone. See page 77 for more details.

**Notes:** Some Bluetooth approved devices may not communicate or work properly with this head unit, depending on the features or specifications of the device. During hands free operation, some noise may be heard when using a mobile device with this head unit, depending on the mobile device and or the communication environment.

## Bluetooth® - Setup Menu (Optional)



<b>Pairing</b>	<p>Before you can use a mobile device with this head unit, it must be authenticated. This is also referred to as "pairing" a device.</p> <p><b>Note:</b> Please make sure that Bluetooth is activated on your mobile device before you begin the pairing process. Refer to the owner's manual of your mobile device for more details.</p>
<b>Step 1</b>	<p>Access Bluetooth setup menu and press Yes to begin the pairing process. The head unit will display "Wait Pairing.." and will search for any nearby Bluetooth device. If you have more than one Bluetooth device, please make sure only the device you want to connect to is powered on. Refer to the owner's manual of your mobile device for more details on searching for Bluetooth devices.</p>
<b>Step 2</b>	<p>When prompted by your mobile device, enter 1234 for the PIN or pass code. The device name of the head unit will show up as "MM-BT G1". After the pairing process has completed, the Bluetooth icon will turn solid blue.</p>
<b>Notes</b>	<p>It is possible to search for previously paired Bluetooth devices from this head unit. It may be possible to search for this head unit from other Bluetooth enabled devices.</p> <p>To search for this head unit from another device (when already connected), press Yes under the Pairing function. The currently connected device will be disconnected and pairing to the new device will be possible. It may also be possible to disconnect this head unit from another mobile device.</p> <p>This unit can remember the last 4 paired mobile devices. It is only possible to connect to one Bluetooth mobile device at a time.</p> <p>When pairing to more than 4 mobile devices, the head unit will delete the phone that was least used to allow for the new pairing (connection). The mobile device that is initially connected will always be remembered (default phone).</p> <p>The <b>MUTE</b> function can not be used during Bluetooth operation. If <b>MUTE</b> is active when a call is received, the audio will automatically be transferred to the mobile device.</p>
<b>Auto Answer</b>	<p>The head unit will automatically answer incoming calls when the Auto Answer feature is set to On. If the Auto Answer feature is set to Off, the Talk button must be pressed to answer an incoming call.</p>
<b>Connect</b>	<p>The head unit will automatically connect to a previously connected mobile device when the Connect feature is set to Auto. If the Connect feature is set to Manual, the head unit will not automatically connect to any mobile device. Set the Connect feature to Manual when you do not want to connect to any Bluetooth mobile device.</p>



# Bluetooth® - Operation (Optional)

Phone Book Menu



Incoming Call Screen



**Dialed Calls**

Press Dialed Call to retrieve the list of dialed calls from the mobile device. "Searching", then "Loading dialed phone book" will be displayed during the retrieval process followed by "The phone book is done". Touch the desired name to call. Press the page up/down buttons to navigate through the pages.

**Received Calls**

Press Received Call to retrieve the list of received calls from the mobile device. "Searching", then "Loading received phone book" will be displayed during the retrieval process followed by "The phone book is done". Touch the desired name to call. Press the page up/down buttons to navigate through the pages.

**Missed Calls**

Press Missed Call to retrieve the list of missed calls from the mobile device. "Searching", then "Loading missed phone book" will be displayed during the retrieval process followed by "The phone book is done". Touch the desired name to call. Press the page up/down buttons to navigate through the pages.

**Making a Phone Call**

It is possible to make a phone call three different ways:

1. Enter the desired phone number using the keypad interface, then press the Talk button.
2. Enter the desired phone number using the numeric keypad on the main remote control, then press OK. (Bluetooth mode must be selected first.)
3. Select a previous call from the phone book menu.

**Answering a Phone Call**

The head unit will answer calls automatically if the Auto Answer feature is set to On. Otherwise, the Talk button must be pressed to answer an incoming call. During an incoming call, the audio is muted for the current source and the incoming call screen will be displayed. Adjust the volume during the call using the rotary encoder volume control.

**Ending a Phone Call**

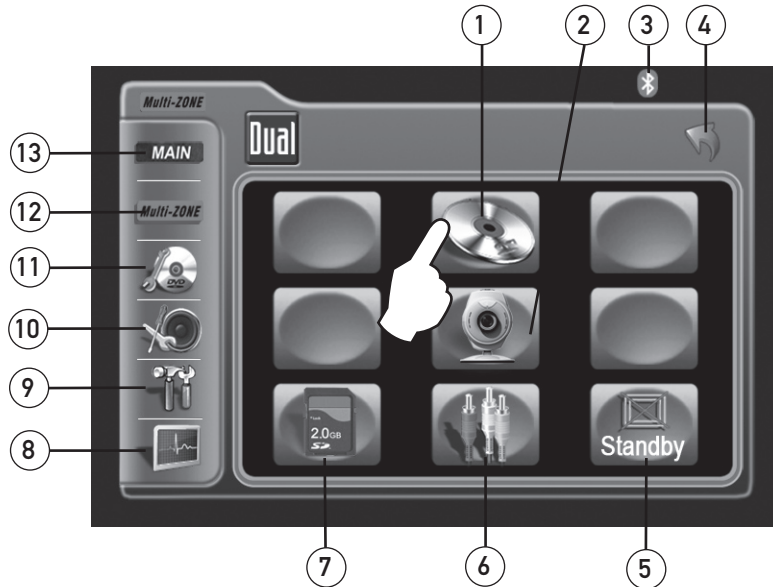
Press the End button on screen or the ESC button on the main remote control to end a call in progress or to reject an incoming call.

# General Operation - Multi-Zone Menu

## Multi-Zone Menu Access

There are two methods to access the Multi-Zone menu

- Press the MENU button on the front panel, then press Multi-Zone
- Touch the upper left corner of the touch screen, then press Multi-Zone



## Touch Access Buttons

- ① Touch to set **CD/DVD** mode as the Multi-Zone mode, (CD/DVD must be inserted)
- ② Touch to set **CAMERA** mode as the Multi-Zone mode, if optional camera isn't connected then "No Video Signal" will be displayed.
- ③ Touch to access **BLUETOOTH** mode, (BLUETOOTH must be activated first). Refer to page 21 for more details.
- ④ Touch to **RETURN** to previous screen
- ⑤ Touch to set the Multi-Zone mode in **STANDBY** (Off).  
**Notes:** When the Multi-Zone mode is set to **STANDBY** (Off), the video signal from the 6.5" TFT is shown by default and the Multi-Zone audio is disabled. Press and hold the **MODE** button on the front panel for more than 2 seconds to change the Multi-Zone mode from **STANDBY** (Off) to active.
- ⑥ Touch to set **AUXILIARY A/V INPUT** mode as the Multi-Zone mode.
- ⑦ Touch to set **SD** mode as the Multi-Zone mode, (SD card must be inserted)
- ⑧ Touch to access **SCREEN SETUP** menu
- ⑨ Touch to access **GENERAL SETUP** menu
- ⑩ Touch to access **ASP Config** menu
- ⑪ Touch to access **CD/DVD SETUP** menu, (CD/DVD must be inserted to function)
- ⑫ Touch to access **MULTI-ZONE** source menu
- ⑬ Touch to access **MAIN** source menu

## Rapid Dial

**RAPID DIAL** can also control touch screen functions from the multi-zone menu

- Select desired function rotating clockwise or counter-clockwise
- Function will be outlined in yellow
- Press to confirm/ENTER



## General Operation - Multi-Zone Menu

### Multi-Zone Operation

Independent sources can be played simultaneously on the unit. For example, the AM/FM tuner mode can be selected for the front zone while DVD video is selected for the Multi-Zone source (for headrest monitors, overhead monitors, etc.).

### Select a Source for the Multi-Zone

1. Press the **MENU** button, then touch Multi-Zone to access the Multi-Zone menu. Select desired Multi-Zone source.
2. Press **MODE** on the Multi-Zone remote to select desired Multi-Zone source.
3. Press and hold the **MODE** button on the front panel to turn the Multi-Zone on.

### Exit Rear-Zone

1. Touch **STANDBY** on the Multi-Zone menu.
2. Press and hold the **MODE** button on the front panel to turn the Multi-Zone off.

#### Notes:

If DVD is selected as the front zone source, SD Card is not available for the Multi-Zone source.

If SD Card is selected as the front zone source, DVD is not available for the Multi-Zone source.

Since the multimedia processor is shared between optical (disc) and SD Card reader, only one or the other source can be selected at a time.

### Selecting a Source for the Front Zone

1. Press the **MENU** button, then touch desired front zone source.
2. Press **MODE** on the main remote to select desired front zone source.

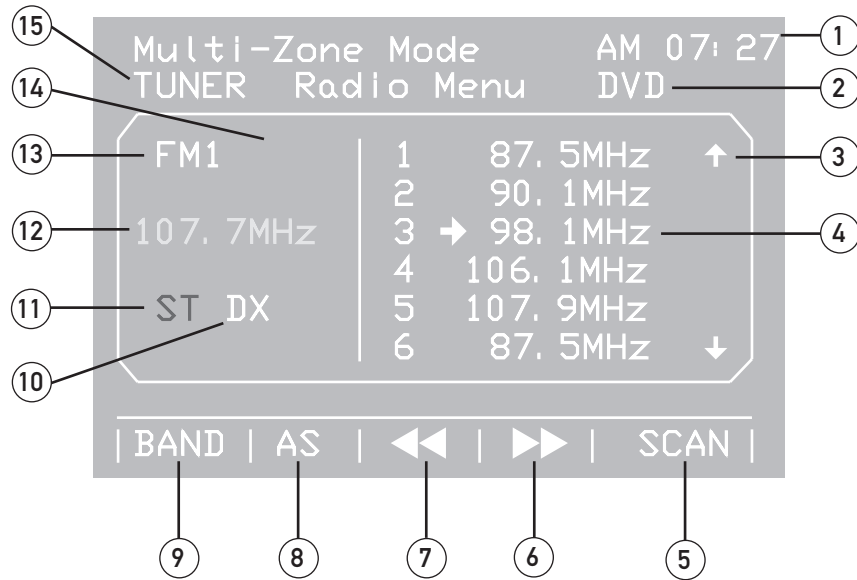
#### Notes:

AM/FM tuner and XM Radio modes will change to a "blue screen" background when any optical mode (DVD, CD, MP3/WMA) or SD Card is selected as the Multi-Zone source.

### Front Zone Standby

To conserve the LCD backlight lifespan or to eliminate glare while night driving, press **STANDBY**. The TFT screen will black out, however all other operations continue to operate. Press any button except **VOLUME** or touch the screen again to return to normal viewing.

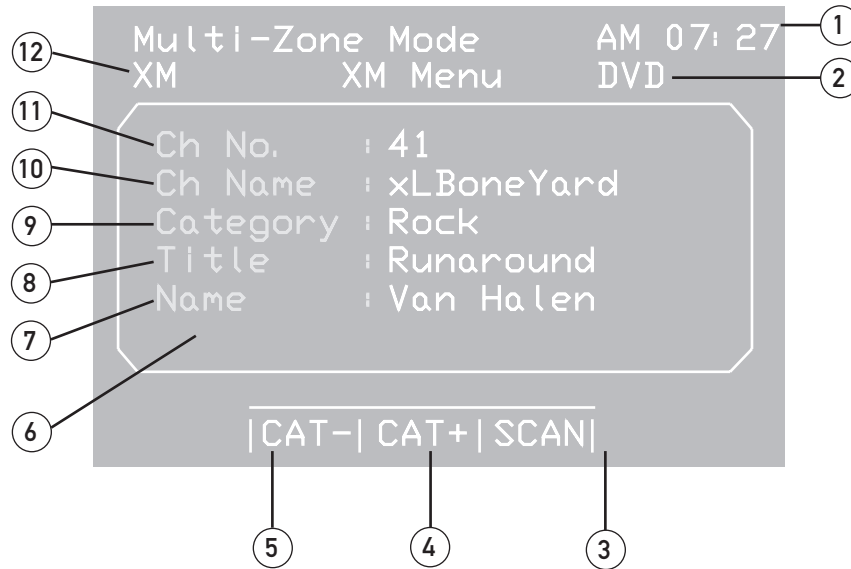
## Multi-Zone - AM/FM Tuner Operation



- ① **Clock indicator** - displays current time.
- ② **Multi-zone mode indicator** - displays current multi-zone source.
- ③ **Preset page up/down arrows** - press to select the next or previous preset page.
- ④ **Preset number list display** - shows the preset station list by frequency. Touch frequency to select a preset. Touch and hold frequency to store presets.
- ⑤ **Tuner scan** - touch to scan through all available stations in the current band, pausing for 10 seconds on each station. Touch again to cancel. **SCAN** will change to yellow when the scan function is active.
- ⑥ **Tune frequency up** - touching this icon will tune the radio to a higher frequency by one frequency step.
- ⑦ **Tune frequency down** - touching this icon will tune the radio to a lower frequency by one frequency step.
- ⑧ **Preset scan/auto station store** - touching this icon will scan through all presets in the current band. Holding this button for more than 2 seconds will automatically program the 12 strongest stations available into the presets in the current band. **AS** will change to yellow during the auto station store process.
- ⑨ **Band** - Touch band icon repeatedly until the desired band is displayed FM1, FM2, FM3, or AM.
- ⑩ **Local/DX tuning mode** - press to select between local or distance tuning.
- ⑪ **Stereo indicator** - shows that the frequency selected is received in stereo. **ST** will change to red during stereo reception.
- ⑫ **Current station indicator** - indicates current frequency.
- ⑬ **Band indicator** - shows current band FM1, FM2, FM3, or AM.
- ⑭ **Preset indicator** - shows what preset has been selected.
- ⑮ **Main zone mode indicator** - displays current main zone source.



# Multi-Zone - XM Radio Operation



- ① **Clock indicator** - displays current time.
- ② **Multi-zone mode indicator** - displays current multi-zone source.
- ③ **Channel scan** - touch to scan through all available channels, pausing for 10 seconds on each channel. Touch again to cancel. **SCAN** will change to green when the scan function is active.
- ④ **Category next channel** - pressing this button will select the next available channel in the current category.
- ⑤ **Category previous channel** - pressing this button will select the previous available channel in the current category.
- ⑥ **Bank indicator** - shows which XM bank is currently displayed.
- ⑦ **Name** - displays the name of the artist of the current song.
- ⑧ **Title** - displays the title of the current song.
- ⑨ **Category** - displays the category of the current channel.
- ⑩ **Channel Name** - displays the name of current channel.
- ⑪ **Channel Number** - displays the number of the current channel.
- ⑫ **Main zone mode indicator** - displays current main zone source.

- Channel Up** Touch area D to select the next available channel.  
(This function can also be performed by pressing ▲.)
- Channel Down** Touch area C to select the previous available channel.  
(This function can also be performed by pressing ▼.)  
Refer to page 39 for more details.



## Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

**Who is covered?** This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

**What is covered?** This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via [www.dualav.com](http://www.dualav.com).


### What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.
4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:
  - Call us toll-free at 1-866-382-5476
  - E-mail us at [cs@dualav.com](mailto:cs@dualav.com)

**Exclusion of Certain Damages:** This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.



# Troubleshooting

<b>General</b>		
Problem	Cause	Action
<b>Unit will not turn on (no power)</b>	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse
<b>Unit has power (but no sound)</b>	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
<b>Unit blows fuse</b>	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
<b>Unit has audio (but no video)</b>	Parking brake safety circuit not connected Parking brake not applied	Check connections at parking brake Apply parking brake as described on page 36
	Reverse circuit not connected Vehicle is not in reverse	Check connections at reverse lamp Select reverse gear
<b>No video display (when in reverse)</b>	Reverse circuit not connected Vehicle is not in reverse	Check connections at reverse lamp Select reverse gear
	Physical defect in media Wrong region	Check media for scratches Use discs labeled "Region 1" or "All" only.
<b>DVD does not start playback</b>	Physical defect in media Wrong region	Check media for scratches Use discs labeled "Region 1" or "All" only.
<b>IR remote does not work</b>	Dead battery	Replace battery
<b>Excessive skipping</b>	Unit is not mounted correctly	Check mounting sleeve
	Physical defect in media	Check media for scratches
<b>Bad Disc appears on display</b>	Focus error or disc is in upside down	Press eject or RESET
<b>Incorrect Region Code appears on display</b>	Region code error	Use only DVDs labeled "Region 1" or "All" only.
<b>Front panel will not open/close</b>	Front panel obstructed	Remove the obstacle and press  to resume the monitor open/close sequence.

## XM Radio

Problem	Cause	Action
<b>You can not receive any XM channels</b>	Your XM Radio receiver is not activated	Contact XM as described on page 73
<b>You can not tune into a specific XM channel</b>	You may not be authorized to receive that channel	Verify your subscription with XM Contact XM as described on page 73
<b>No Signal appears on display</b>	The XM signal is blocked	Move vehicle from obstructed area (such as inside a tunnel or a garage)
	This message may appear when driving inside a tunnel or under obstacles	Make sure the antenna has a clear view of the sky
<b>Check Antenna appears on display</b>	The XM antenna is not connected The antenna cable is damaged	Check XM antenna connection Check for pinched or cut antenna cable
<b>OFF AIR appears on display</b>	The selected channel is not in service	Try another channel
<b>No song title or artist name is displayed</b>	This information may not be available for some music channels, news channels, or when there is no song playing	This condition is normal, there is nothing wrong with your receiver

## Troubleshooting

<b>Bluetooth</b>		
Problem	Cause	Action
<b>Please connect first appears in the display</b>	There is no mobile device connected to the head unit	Pair and or connect a mobile device to the head unit as described on page 83
<b>Mobile device will not connect to the head unit</b>	Bluetooth function is not active on the head unit	Activate Bluetooth function as described on page 21
	Bluetooth function is not active on the mobile device	Refer to the owner's manual of your mobile device
	A mobile device is already connected to the head unit This head unit can only be connected to one device at a time	Disconnect current mobile device first, then connect desired mobile device
<b>ERROR! Connect Timeout appears in the display</b>	The time limit for the pairing mobile device has been reached	Pair the mobile device within 120 seconds
<b>Pairing Fail appears in the display</b>	The attempted pairing process has failed	Retry the pairing process again
<b>Mobile device will not connect to the head unit automatically</b>	The Connect function is set to Manual. When the Connect function is set to Manual, the head unit will not connect to any mobile device automatically	Set Connect function to Auto as described on page 77
<b>Ring tone can not be heard through the speakers</b>	Ring tone volume is turned down	Increase the volume of the ring tone using the rotary encoder during the ringing process
	MUTE function is activated on the head unit	Press MUTE to cancel the mute function and resume audio
<b>Echo or noise is heard during a phone call</b>	Possible road noise or interior interference	Close all open windows and turn off any fans or A/C
	Microphone opening on the front panel is obstructed	Clear any obstacles in front of microphone opening
<b>Call is connected (but no audio can be heard through the speakers)</b>	Audio is routed to the mobile device	Press Audio Transfer to allow audio from the phone to be heard through the speakers
<b>Call is answered automatically</b>	Auto Answer function is set to On	Set Auto Answer function to Off as described on page 77
<b>Caller ID does not appear during incoming call</b>	The calling mobile device is not set to send the Caller ID or, the service is not available	Some devices may not communicate or work properly with this head unit

# Specifications

<b>DVD Player</b>	Frequency response: <b>10Hz-20kHz</b> Channel separation @ 1kHz: <b>&gt;65dB</b> D/A converter: <b>24 Bit</b>
<b>FM Tuner</b>	Tuning range: <b>87.5MHz-107.9MHz</b> Usable sensitivity: <b>8.5dBf</b> 50dB quieting sensitivity: <b>10dBf</b> Stereo separation @ 1kHz: <b>40dB</b> Frequency response: <b>30Hz-13kHz</b>
<b>AM Tuner</b>	Tuning range: <b>530kHz-1710kHz</b> Usable sensitivity: <b>22uV</b> Frequency response: <b>30Hz-2.2kHz</b>
<b>Monitor</b>	Panel size: <b>6.5" (165.1 mm) diagonal measurement</b> View angle (up/down/left/right): <b>40/55/60/60</b> Resolution: <b>400 W x 234 H</b> Brightness (cd/m <sup>2</sup> ): <b>350</b> Contrast ratio: <b>350:1</b> Elements: <b>280,800</b>
<b>General</b>	Operating voltage: <b>11-16 VDC, negative ground</b> Speaker output impedance: <b>4~8 ohms</b> Line output voltage: <b>2 Volts</b> Line output impedance: <b>200 ohms</b> Chassis dimensions: <b>7" x 6.3" x 3.9"</b> <b>(178 x 160 x 99 mm)</b> Faceplate dimensions: <b>6.6" x .7" x 3.8"</b> <b>(167 x 18 x 97 mm)</b> Sleeve dimensions: <b>7.1" x 3.9" x 4.4"</b> <b>(180 x 99 x 112 mm)</b>

Design and specifications subject to change without notice.



CEA-2006 Power Standard Specifications  
(reference: 14.4VDC +/- 0.2V, 20Hz~20kHz)

Power Output: 17 Watts RMS x 5 channels at 4 ohms and ≤ 1% THD+N  
Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)



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