

DVD MULTIMEDIA RECEIVER

4.5" TOUCH SCREEN DISPLAY



OEM
Original Entertainment Media

OPERATION MANUAL

CH-4100

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Safety Information

Please read all instructions prior to installation and operation

It is highly recommended to have a professional installer or an authorized dealer install your CH-4100 multimedia receiver.

This product is only for use in vehicles with 12VDC negative ground only.

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.



WARNINGS to prevent injury or damage to unit:

- 1) This model incorporates a motorized moving monitor. Before final installation make sure the monitor will not obstruct the dash, shifter or any other controls.
- 2) The Yellow/Blue lead must be connected to the brake switch circuit in order for the in-dash video safety feature to function properly. Failure to properly install this safety feature could cause the driver to be distracted, which could result in serious injury or death to the vehicle's occupants, persons outside the vehicle and/or property damage.
- 3) Do not install the unit in a spot exposed to direct sunlight or excessive heat.
- 4) Make sure to ground the unit securely to the vehicle chassis ground
- 5) Use only the hardware and wire harness provided.
- 6) 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.
- 7) To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
- 8) 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 and may result in a fire.
- 9) Do not remove the top or bottom covers of the unit.
- 10) Do not subject the unit to excessive shock and avoid impact to the LCD monitor.
- 11) 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.
- 12) Do not get water, other liquids or cleaning fluid on the unit.
- 13) Only a 5" (12cm) compact disc may be used in the disc player. Never insert any foreign object into the disc player as the mechanism can be damaged. This includes the use of a 3" (8cm) CD-single, either with or without an adaptor. This type of damage is not covered by the Warranty on this product.

Care and Installation

Care and Maintenance

- 1) To clean the monitor or front panel, wipe only with a dry silicone cloth or soft cloth and neutral detergent. 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.
- 2) It is recommended to use a cleaning disc in this unit more frequently than the player in your home, since your vehicle is exposed to different environmental conditions.
- 3) 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.
- 4) Under damp conditions or when the vehicle warms up during cold weather, condensation may become visible on the LCD panel. Until the moisture has evaporated, the screen may not work properly.
- 5) If the temperature inside the player gets too hot, a protective circuit automatically stops play of the disc. If this occurs, allow the unit to cool before operating the player again.
- 6) If the temperature inside the vehicle is extremely hot or cold, the CD player may not operate properly. Before using the player, allow the inside of the vehicle to reach normal temperature.

FCC Compliance:

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.

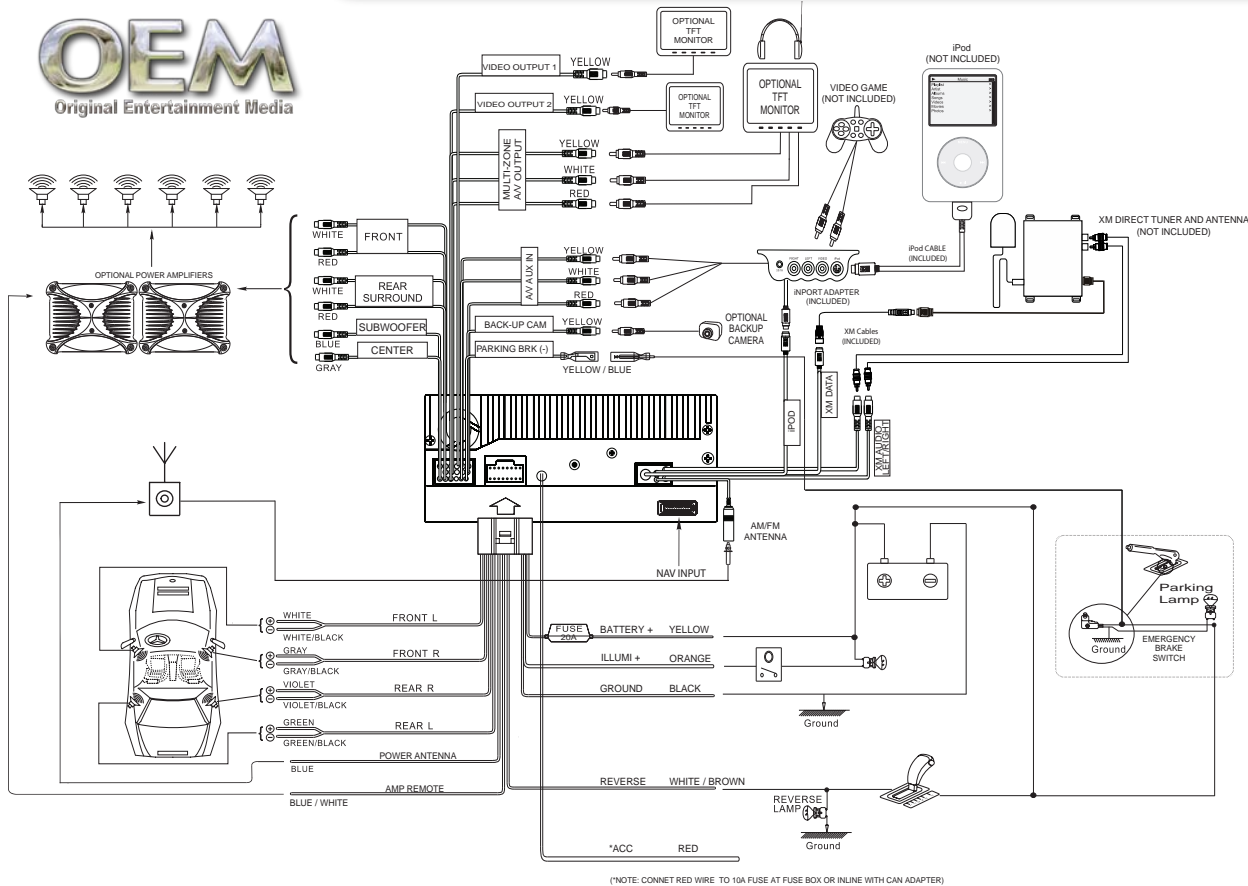
Disconnect the Battery:

To prevent short circuit, turn off the ignition and remove the negative (-) battery cable prior to installation.

Installation Help

1. If you experience problems during installation, consult your nearest **OE RADIO** dealer.
2. If the unit malfunctions, reset the unit as described on page 6 first. If the problem still persists, consult your nearest **OE RADIO** dealer or call tech assistance @ 1-877-305-8972.

Wiring Diagram



Wiring Notes:

Additional hardware and accessories may be required for installation such as CAN or LAN adapters or wiring harnesses (Not Included)

- * Steering wheel controls may not work with some vehicles
- * If opting to **NOT** use the CAN or LAN adapters, an IGN wire must be run from the radio to the fuse box. We recommend tapping into at least a 10A amp IGN fuse at the fuse box if using this procedure.

Optional A/V Connections



Wiring Notes:

- The SUBWOOFER audio output (Blue RCA) is active in all audio modes and must be connected to an external amplifier.
- A rear view camera (not included) can be connected to the CAMERA input.
- Connect the yellow/blue PARKING BRAKE wire to brake switch circuit in order for the in-dash video safety feature to function properly.
- **NEED HELP??** Call our Technical Service Hotline, 1-877-305-8972.

Controls



Button Operation

- 1) **EJECT** - Press once for DISC ejection
- 2) **MUTE** - Press once to **MUTE** audio, press again to return audio. The volume icon will change.
- 3) **VOL / SMART DIAL** - Rotate knob ⤴ or ⤵ for desired **VOLUME** level. Rotate clockwise/counter clockwise to select desired item in any **MODE** and press once to **ENTER**. Press and hold to access **AUDIO** menu.
- 4) **PLAY/PAUSE** - Press play to resume disc playback, press again to suspend disc playback.
- 5) **SRC** - Press select source. Press and hold to toggle to rear zone mode **ON/OFF**
- 6) **MIC** - Utilized during operation of a Bluetooth device. Do not obstruct, or spray with any cleaning solution.
- 7) **NAVI** - Press once to enter Navigation Operation Interface.
- 8) **FM/AM** - Press to increment from **FM1**, **FM2**, **FM3**, **AM1**⇒**FM1**. Press and hold to adjust **picture settings**. Press ▼ or ▲ to select desired parameter.
- 9) **PREVIOUS** - Press ◀◀ to fast reverse in **DVD** mode or to select desired parameter within each different mode. Press to **SEEK TUNE** in Tuner Mode.
- 10) **NEXT** - Press ▶▶ to fast forward in **DVD** mode or to select desired parameter within each different mode. Press to **SEEK TUNE** in Tuner Mode.

System Reset

If you experience abnormal operation or your unit is inoperable, use the tip of a pen to press the **RESET** button for 3 seconds (upper left hand corner of unit). After a system reset, the unit restores all factory default settings.

Hidden Touch Screen area while in TUNER mode

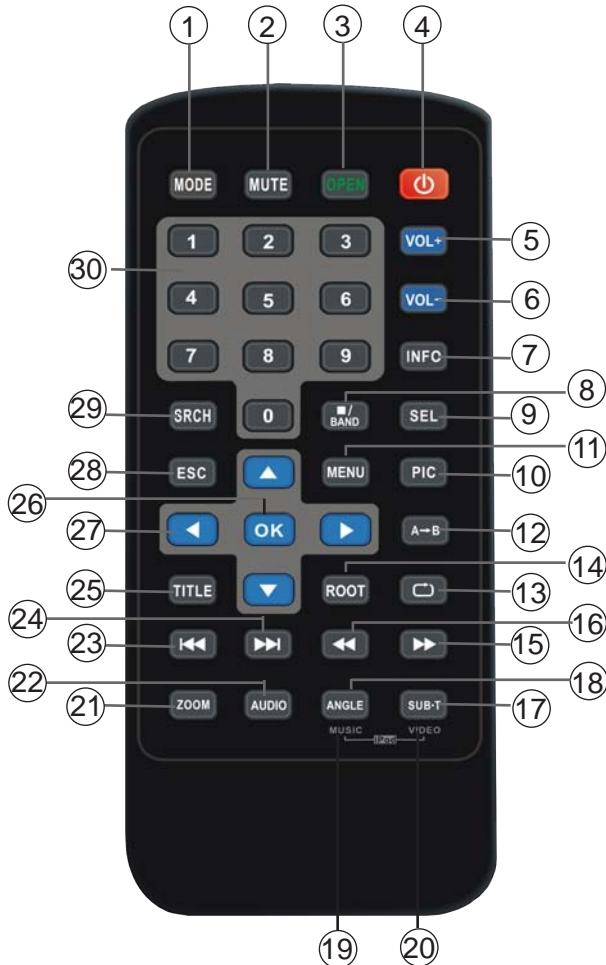
Area A can be used in any mode to access **MAIN** menu.



Remote Control

Main Remote Buttons

Pull the battery insulation tape out before using IR remote



- 1) Mode - Press once to select between **TUNER, DVD, AV1, CAMERA, XM, NAV, BLUETOOTH** and **iPod** inputs.
- 2) Mute - Press once to **MUTE** or restore Audio
- 3) Open/Close - Open or Close Monitor
- 4) Power-Power **ON/OFF**
- 5) Volume Up - Increase volume
- 6) Volume Down - Decrease volume
- 7) Info - Displays system information
- 8) Band/Stop - Increment **BAND** or **STOP** while in **DVD/MP3** mode
- 9) Audio Select - Enter **AUDIO** setup mode
- 10) Picture - **BRIGHTNESS** setting for Monitor
- 11) Menu - Enter **MAIN** system menu
- 12) Repeat A-B - Repeat playback from frame A to frame B
- 13) Repeat - Playback current **DVD** chapter
- 14) Root - Main **DVD** disc menu
- 15) Fast Forward - Fast forward **disc** content
- 16) Fast Rewind - Fast rewind **disc** content
- 17) Sub-Title - Language selection for subtitles
- 18) Angle - Adjust angle of TFT Monitor
- 19) Music (iPod) - Selects iPod music mode
- 20) Video (iPod) - Selects iPod video mode
- 21) Zoom - Zoom in/out on **DVD** image
- 22) Audio - Change audio language for **DVD** disc playback
- 23) Chapter/Track Down - Previous chapter/track
- 24) Chapter/Track Up - Next chapter/track
- 25) Title Menu - Enter title menu on **DVD**
- 26) OK - Start/Pause playback or confirm settings
- 27) Up/Down/Left/Right Select - Navigating system and **DVD** menus
- 28) Escape - Exit current menu
- 29) Search - Search function for **DVD / CD** disc
- 30) Numeric buttons - Access chapter/track/preset station for current **BAND**

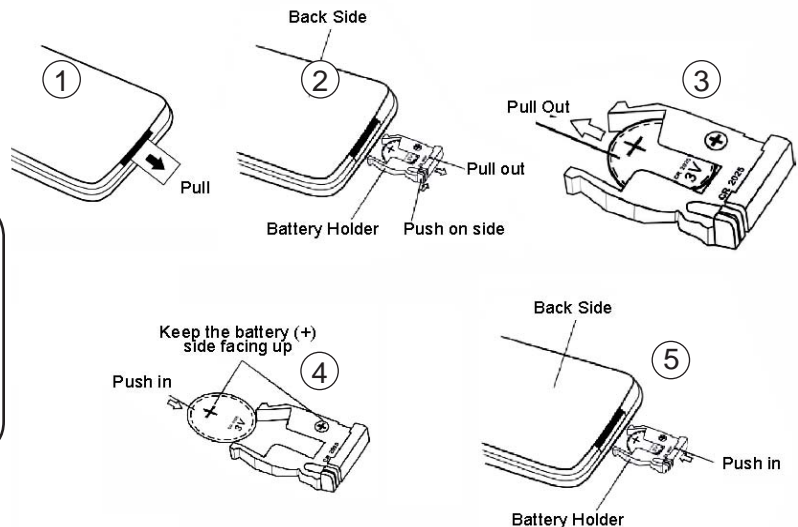
Insert / Replacing the Battery:

1. Pull out the battery holder
2. Remove battery from holder
3. Install new battery*
4. Make sure the (+) side faces up
5. Insert battery holder

Notes and CAUTION

- If IR Remote will not be used for a month or longer
- Remove and dispose of battery properly
- Do not store battery with metallic objects or materials.

* The remote control uses one 3 volt Lithium CR2025 battery.

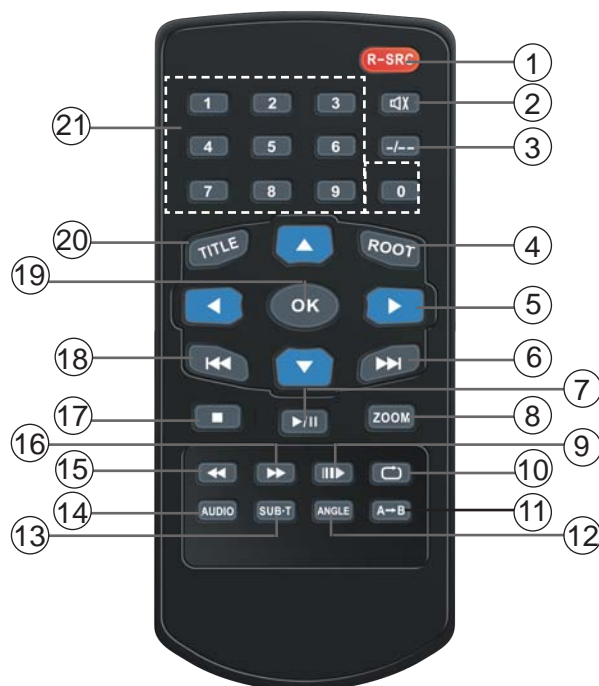


Multi-Zone Remote

Multi-Zone Remote Buttons

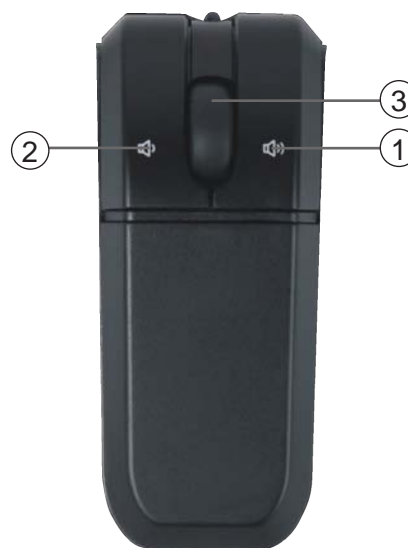
Pull the battery insulation tape out before using IR remote

- 1) R-SRC - Selected playing sources
- 2) Mute - Toggle on/off audio output
- 3) GOTO search - Search function in the **VCD/ DVD** disc
- 4) Root - Main **DVD** disc menu
- 5) Up/Down/Left/Right - Navigating system for selection.
- 6) Next - Select the next chapter/track for playback. Search an available radio station by increasing tuning frequency in tuner mode
- 7) Start/Pauses - For playback
- 8) Zoom - Zoom in/out on **DVD** image
- 9) Slow Play - Slow forward playback
- 10) Repeat - Playback current **DVD** chapter
- 11) Repeat A-B - Repeat playback from frame A to frame B
- 12) Angle - Playback in different angle for a scene (if applicable)
- 13) SUB-T - Language selection for subtitle
- 14) Audio Select - Enter **AUDIO** setup mode
- 15) Fast Rewind - Fast rewind **DISC** content
- 16) Fast Forward - Fast forward **DISC** content
- 17) STOP - Stop playback on other mode
- 18) Previous - Select the previous chapter/track for playback. Search an available radio station by decreasing tuning frequency in tuner mode
- 19) OK - Start/pause playback or confirm settings
- 20) Title - Enter the title menu of current source
- 21) Numeric - Directly access chapter/track/preset station for current band



Smart Dial Remote Buttons

- 1) VOL Up - Increase the volume
- 2) VOL Down - Decrease the volume
- 3) Smart Dial - Press this encoder to access the system setup. Rotate up/down to select a desired feature and press once to access or confirm.



Monitor Operation

Safe Monitor Operation

- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- The video display of the in-dash unit will not operate while the vehicle is moving. As a safety feature, a blue "**PARKING**" screen will show on the display when the vehicle's parking brake is not engaged. **DVD, AV1** audio can be heard while the vehicle is in motion.
- 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. See **INITIALIZING PARKING BRAKE** for more details, page 19.

Image Setting

While in **RGB** mode, the only parameter that can be adjusted is **BRIGHTNESS**. To access **SHARPNESS, CONTRAST, COLOR, TINT** you must be in **CVBS** (Composite Video Signal) mode.

Playing Source	Video Output Format
FM / AM TUNER	RGB Mode
DVD	RGB Mode
NAV	RGB Mode
AUX IN	CVBS Mode
CAMERA	CVBS Mode
iPOD (video)	CVBS Mode
XM	CVBS Mode

RGB Brightness

Press **PIC** on the remote and use ◀ or ▶ to set to desired **BRIGHTNESS** or touch **Area A** (upper left hand corner of monitor) to access main menu.

Press **SCREEN** Setup



Touch [-] to DIM TFT



0 to +20 is possible
Default is 10

Touch [+] to brighten TFT



Touch ARROW to

Monitor in Rear Camara Mode

When the vehicle is placed in "Reverse" and an optional rear camera is connected to the unit, the **MONITOR** will automatically switch to the camera input source.

General Operation

Power On / Off


Press the **VOL/SMART DIAL** once to turn on the unit. Once on, press to **MUTE** sound, press again to restore sound. To turn off, press and hold. The unit can also be turned on using the remote.

Volume Adjustment







Adjust the **Volume** using the **VOL/SMART DIAL** knob or the remote to adjust the volume to the desired listening level. The volume is set at a default value. This default memory value can be reset by selecting the desired volume and then holding down the **MENU** button until you hear a 1 beep.

Mute

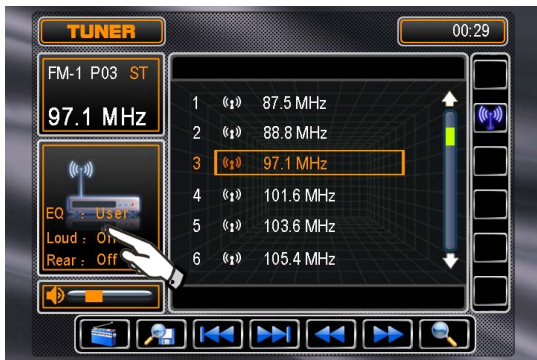
The volume will be muted when the following situations occur:

- 1) When a telephone call is received by the car phone or when verbal navigation is performed.
- 2) When the "MUTE" wire is connected to a cell phone
- 3) When the power button on the front panel is pressed once or the **MUTE** button on the remote is pressed. The  symbol will appear on the Monitor.

Audio Control Menu

You can adjust your audio system to meet the acoustical characteristics of your vehicle which vary on the type and size of vehicle. To get the best sound quality, be sure to adjust the settings of your speakers. Properly setting the **FADE** and **BALANCE** will enhance the effects of the cabin equalizer. To access the Audio Control Menu, press **Area C**, press and hold the Vol/Smart Dial or **SEL** on your remote. Change the equlizer settings by touching the   buttons or by pressing  or  on the remote. Press the   buttons on the remote to select an setting to be adjusted or touch screen to adjust settings.

Touch the arrow on the screen or **ESC** or **SEL** on the remote to exit.



Notes:

The Bass and Treble levels are only adjustable when **EQ** is set to "User" mode.

ITEM	RANGE	
EQ	USER	FLAT
	JAZZ	POP
	CLASSIC	ROCK
	NEWS	URBAN
	RAVE	MOVIE
	TECHNO	
BASS	-7	+7
TREBLE	-7	+7
FADE	-9	+9
BALANCE	-9	+9
SUB	-7	+7
LOUD	OFF	ON

The **Loud** function compensates for deficiencies in sound ranges at low levels. When the **Loud** function is on, **LOUD** is displayed on the screen.

Main Access Menu

Main Access Menu

The **MAIN** menu can be accessed by pressing the **MENU** button on the remote or by touching the Area A (upper left hand side) on the monitor.

Touch Access Buttons

- 1) Touch to access **AM/FM TUNER** mode.
- 2) Touch to access **CD/DVD** mode, **CD/DVD** must be inserted.
- 3) Touch to access **XM MODE**. (XM Receiver must be connected to activate).
- 4) Touch to access **iPOD** mode. (iPod must be connected to activate).
- 5) Touch to access **NAVIGATION** mode.
- 6) Touch to access **CAMERA** mode. (If optional camera isn't connected then "No Video Signal" will be displayed).
- 7) Touch to access **AUXILIARY A/V INPUT** mode.
- 8) Touch to access **BLUETOOTH** mode. (**BLUETOOTH** must be activated first).
- 9) Touch to **STANDBY** screen.



Source Selection

Sources can also be selected by pressing the SRC button on the front panel to change among TUNER, Disc, iPod, SAT, AUX IN, CAMERA (rear view video camera) and NAVI. The source mode is displayed on the Monitor.

Standby Mode

In the standby mode, the LCD is off with audio input only. The **VOLUME** level can be controlled without interrupting **STANDBY**. Touch screen again or any button to resume display.

Rear Zone

Touch to access the rear zone source menu. Press and hold the SRC button on the front panel to toggle **REAR ZONE** mode On.



Exit Rear Zone

Touch the **STANDBY** button on the rear zone menu.

Selecting Front Zone Source

The Main Menu allows you to select a source for the front zone.

Access General Setup Menu

- Press the **SETUP** button to access the **GENERAL** setup mode
- Select desired parameter you wish to change
- Page will return to previous screen after 10 sec. of inactivity or by pressing the arrow to exit.



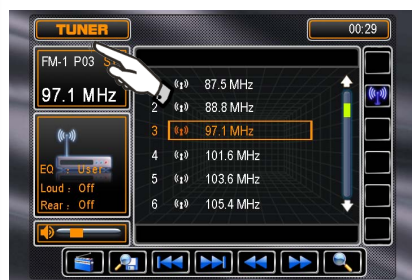
General Set Up Menu

GENERAL Setup Menu Table

Settings	Default	Options		Function
Radio	USA	USA	Korea	Set to appropriate setting for your Country
		S-AMER1	China	
		S-AMER2	Arabia	
		Europe		
Clock adjust	AM	HH:MM		See adjusting the clock 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
Bluetooth	Off	Off		Turns off functionality of Bluetooth
		On		Activates Bluetooth functions
OSD Menu	English	English		The menus are displayed in English only

**Not all GENERAL setup features are described in detail*

Adjusting TUNER Frequency



Touch **Area A** to access **GENERAL MENU**



Touch **GENERAL** Setup button



Touch **USA**



Touch setting for your country



Touch arrow to **EXIT**

Notes:

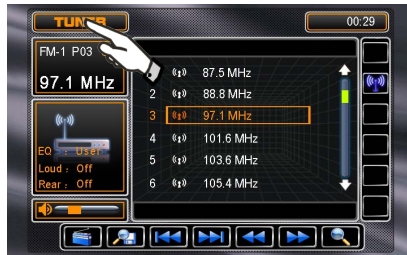
The SMART DIAL can also be used by selecting the desired setup button, then pressing to obtain a submenu. Select the desired value and then pressing again to confirm the setting.

Adjusting the Clock

12 or 24 Hour Clock Mode

correct hour.

Touch **Area A** of screen



Touch arrow to **EXIT** setup



Touch **GENERAL** setup button



If you desire 24Hr format, select 24Hr from **CLOCK MODE**



Touch **AM** or **PM** to set



Touch **OK**.



Touch **00:00** area in the **CLOCK** row to set the hour. Keypad should appear. Enter



Touch **00:00** area. Enter correct minutes.



Screen Setup Menu

- Press the **SCREEN** Setup button to access the **SCREEN SETUP** mode
- Select desired parameter you wish to change
- Page will return back to previous screen after 10 secs of inactivity or by pressing the **RETURN** button



Screen Setup

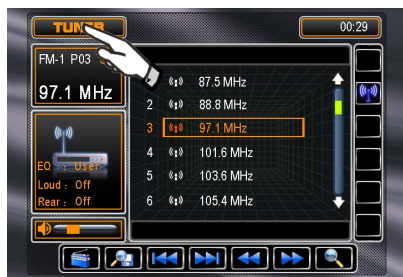
Screen Setup Functions

Settings	Default	Options	Function
Brightness	10	0 to +20	Press the < / > buttons on the remote, touch the (-) or (+) buttons on the screen or rotate the SMART DIAL to adjust the BRIGHTNESS to the desired setting
Screen Saver	On	On	Select On to activate the screen saver, Off to deactivate
		Off	
Touch Screen Calibration	No	No	Touch Yes to enter the Touch Screen calibration mode
		Yes	
Version			Software version of unit

Touch Screen Calibration

It may become necessary to recalibrate the touch screen.

Touch **Area A**



Touch **SCREEN** Setup Button



Touch **NO** in TS Calibration



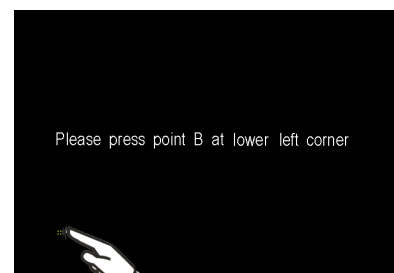
Then press **YES**



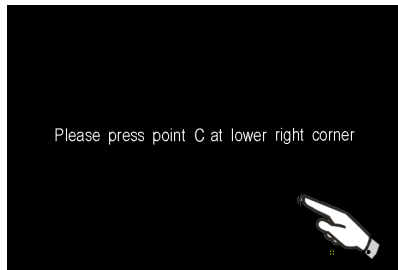
Touch and hold point A



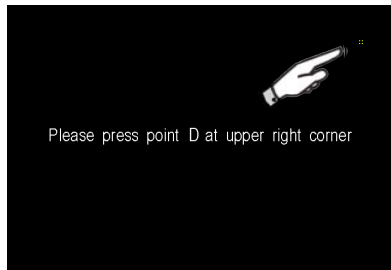
Touch and hold point B



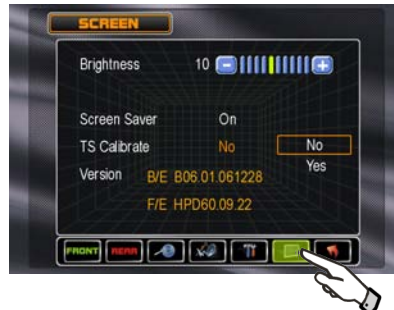
Then touch and hold point C



Touch and hold point D



Touch arrow to **EXIT**



Audio Signal Processing (ASP)

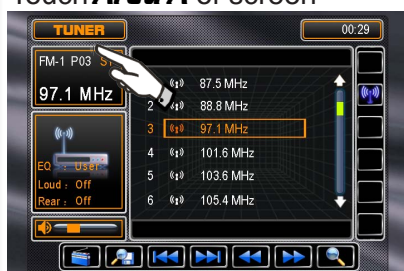
ASP Configuration Menu

Settings	Default	Options	Function
Bass Freq	60 Hz	60Hz, 80Hz, 100Hz, 130Hz, 150Hz, 200Hz	Select the desired frequency to obtain the best bass effect.
Treble Freq	15KHz	10KHz, 12.5KHz, 15KHz, 17KHz	Select the desired frequency to obtain the best bass effect.
Sub Filter	80Hz	80Hz, 120Hz, 160Hz	Sets a cut off frequency of the subwoofer's LPF (low pass filter) and the "SMALL" speakers HPF (high pass filter). This setting has no effect if the subwoofers are OFF
Sub Phase	0°	0°	Subwoofer output IN phase
		180°	Subwoofer output OUT OF phase
Bass Q-Factor	1.5	1.0, 1.25, 1.5, 2.0	Alters the sharpness of the Bass output

The **ASP** Configuration Menu allows fine adjustment of your audio.

Accessing ASP Configuration Menu

Touch **Area A** of screen



Touch **ASP SETUP** button



Select desired parameter



Choose value from pop up menu



Scroll down to gain menus



Touch **- +** to adjust



Scroll down to **AUX1** and **SD** Gain



Touch **- +** to adjust



Touch arrow to **EXIT**



AM/FM Tuner Operation

AM / FM Tuner Screen



- 1) Current source **MODE**. Touch to access MAIN menu. **TUNER, DVD, XM*, iPod*, CAMERA, Bluetooth, NAVi*, AUX** are indicated in the **OSD** (On Screen Display).
- 2) Current **PRESET** station indicator.
- 3) Broadcast indicator for **STEREO**
- 4) Clock
- 5) Page up **PRESET**
- 6) Selection for **LOCAL/DISTANCE**
- 7) Page down **PRESET**
- 8) Auto station **SCAN** button
- 9) Up for **MANUAL TUNE**
- 10) Down for **MANUAL TUNE**
- 11) Up for **SEEK TUNE**
- 12) Down for **SEEK TUNE**
- 13) Press **AS/PS** (Auto store / Preset Scan) for 1 sec to start station **PRESET SCAN** function, press **AS/PS** for 2 secs to start **AUTO STORE** station preset function in current **BAND**
- 14) Press **BAND** to increment from **FM1, FM2, FM3, AM1** ⇒ **FM1**.
- 15) Indicator for **VOLUME**
- 16) Indicator for **LOUD**
- 17) Equalizer indicator, touch to access **AUDIO Setup** menu
- 18) Current radio frequency indicator
- 19) Current radio **BAND** indicator

* **iPod, XMD1000™ Tuner Module and SNAV-1** must be connected to appear in the **MODE** selection string. (XMD1000™ and SNAV-1 each sold separately)

AM/FM Tuner Operation

Auto Seek Tuning

Press the  button to auto **SEEK** up the next strongest station.

Press the  button to auto **SEEK** down the next strongest station.

Manual Tuning

Press the  button to manually tune up one step at a time.

Press the  button to manually tune down one step at a time.

Auto Store (As)

Press and hold **AS/PS** for more than 2 seconds to automatically store the twelve strongest stations in the current band. Automatic Local tuning is activated during the initial band scan, repeat for other bands.

All presets within the current band will be overwritten.

Program Scan (PS)

Press **AS/PS** for less than 2 seconds to scan presets 1-12 on the current band, pausing for 5 seconds at each. Press **AS/PS** again to cancel.

Scan

Press **SCAN** to preview strong stations on the current band, pausing for 5 seconds at each station. Press **SCAN** again to cancel.

LOC/DX Radio Station

Touch **LOC** button on the **TFT** to activate **LOC / DX** when the **LOCAL** function is on, **LOC** will appear, only radio stations with a strong signal are received, **DX** is for radio stations that are far away and/or have weak signals.

Storing Radio Stations Preset

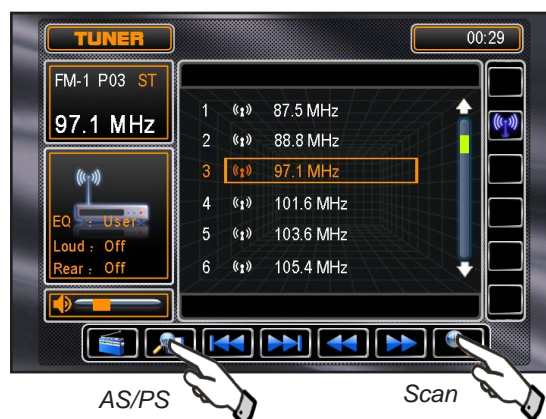
Up to 36 **FM** stations and 12 **AM** stations can be stored. To store a station, select the desired band and station. Press and hold the desired preset button (1-12) for more than 2 seconds. When stored, the **PRESET** number will appear in the display. The station can be recalled anytime by pressing the corresponding preset button on the **MONITOR**.

Recalling a Radio Station Preset

Touch an corresponding **PRESET** number for less than 2 secs to recall.

Preset Page Up/Down

Only 6 **PRESETS** can be display at one time, use **PRESET** page up/down to access next stored **PRESETS** accordingly.



DVD Information

DVD Region Management

Some **DVD** discs can be played only in certain playback modes according to the intentions of the software. As the **CH-4100** 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 **CH-4100** 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



Notes:

Some **DVD** discs can be played only in certain playback modes according to the intentions of the software. As the **CH-4100** plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

Symbol	12cm Disc Properties	Max Play Time
	Single side single layer (DVD-5)	(MPEG 2 Method)
	Single side double layer (DVD-9)	133 minutes
	Double side single layer (DVD-10)	242 minutes
	Double side double layer (DVD-18)	484 minutes
	Single side single layer (VCD)	(MPEG1 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 ratio 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"> Region 1: USA, Canada, East Pacific Ocean islands Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/Oceania Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia 	

Initializing Parking Brake

SAFETY WARNING

- The video display of the in-dash unit will not operate while the vehicle is moving.
- 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 active, however, **DVD** and **AV1** audio can be heard while the vehicle is in motion without engaging the parking brake.
- This is a safety feature to prevent driver distraction. 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.

CAUTION !!!
IT'S UNLAWFUL TO OPERATE A VEHICLE WHILE VIDEO IS
DISPLAYED IN THE DRIVERS VIEWING AREA.
ENGAGE EMERGENCY BRAKE
TO ENJOY VIDEO

Front Monitor Video Initialization

Follow this two initialization procedure carefully to allow video playback on **CH-4100** front panel monitor:

There are usually two situations that start the **PARKING BRAKE** Sequence.

Initializing Parking Brake Scenario 1

First situation is while driving:

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

Once above procedure 1-4 is completed, approx 3 sec—video will display.

Initializing Parking Brake Scenario 2

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

- 1) Keep vehicle in Park, **PARKING BRAKE** should be off
- 2) Release **PARKING BRAKE** for 2 to 3 seconds
- 3) Depress **PARKING BRAKE** for 2 to 3 seconds
- 4) Release **PARKING BRAKE** for 2 to 3 seconds
- 5) Depress **PARKING BRAKE** permanently

Notes: _____

- Once 2nd procedure is completed, approx 5 sec—video will display.
- This procedure will have to repeated if the IGN is turned off.
- The transition time must be less than 2 seconds between depressed and released.

DVD Operation

DVD Loading Slot



Eject button

Disc Indicator Light -

Blue light indicates no disc, otherwise light is red



Insert **CD/DVD** with label facing upwards

Notes:

- 1) 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**")
- 2) Only one disc can be inserted at one time.

Inserting a DISC

When inserting a **DVD** disc, it will play automatically. Other sub-menus may have to be pressed to access the **DVD** movie / music content, read the directions of your specific **DVD** disc for hidden features.

Ejecting the DISC

Press the **EJECT** button

Resetting the Loading Mechanism

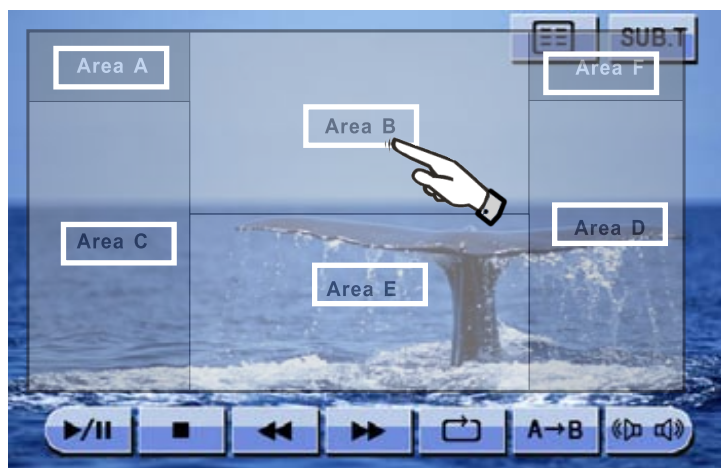
If the disc loads abnormally or an system error occurs, press and hold the eject button for 3 seconds to reset the loading mechanism. The disc will eject and normal operation should resume.

Hidden Touch Screen area while in DVD mode

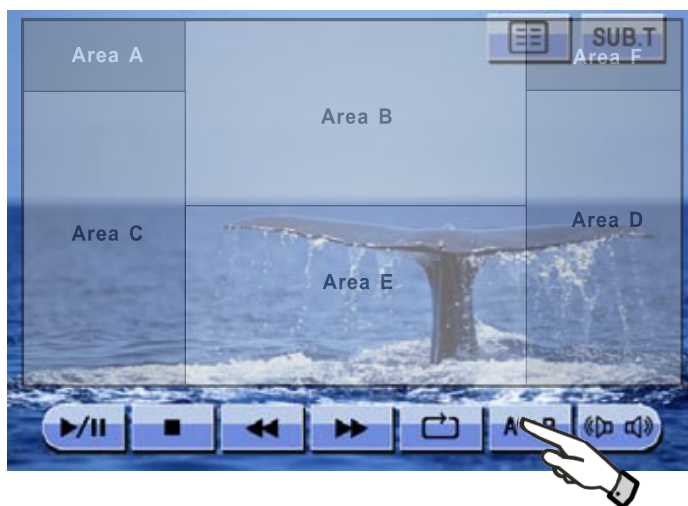
Areas "**A-F**" can be used in **DVD** mode to access:

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

A **DVD** disc must be inserted to access the hidden screen functions



DVD Controls



- 1) Touch the **PLAY** button or on the front panel to resume disk playback.
- 2) Touch the **PAUSE** button again to suspend the disc playback.
- 3) Touch button to **STOP** playback, touch or **OK** on the remote to resume playback.
- 4) Touch the **REVERSE** button to **FAST REVERSE** on **DVD**, 2x, 4x, 8x to 20x.
- 5) Touch the **FF** button to **FAST FORWARD** on **DVD**, 2x, 4x, 8x to 20x.
- 6) Touch the Repeat to scroll through the following:

DVD: Repeat Title, Repeat Chapter, Repeat **OFF**

MP3: Repeat Single, Repeat Folder, Repeat **OFF**

- A. Use the **A-B** function to define a specific area of disc to repeat. Press the **Repeat A-B** button to set a start point of the (A) selection.
- B. Press the **A-B** button again once you reach the desired end point (B) of the repeated section, the selected portion of the **DVD** will now repeat continuously.
- C. Press **A-B** button once again to cancel the **A-B** selection and stop repeat playback

- 7) Touch to change Audio language playback
- 8) Touch to change Sub-title of **DVD**
- 9) Touch to return to **DVD MAIN** menu

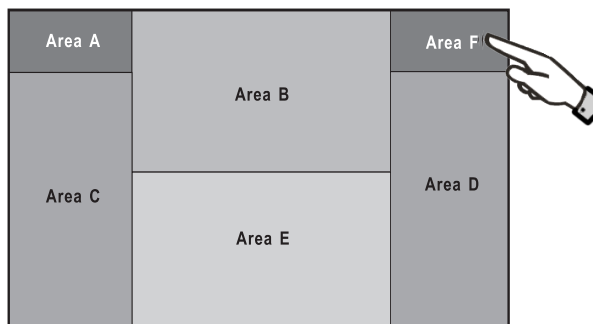
Notes:

Some **DVD** discs can be played only in certain playback modes according to the intentions of the software. As the **CH-4100** 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 Search Function

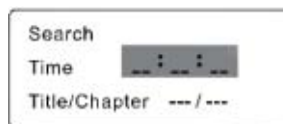
Searching a DVD

Touch the search  button in **AREA F**.



Searching by Time, Title or Chapter

- 1) Touch the  in the **TIME** area.
- 2) A touch keypad will now appear, enter your desired **TIME** to search.
- 3) Enter **OK**.




Direct Chapter / Track Selection

During **DVD** and **CD** playback, you can use the numeric keypad on the **IR** remote to access tracks directly


Viewing an Alternate Picture Angle (DVD Only)

Some **DVD**'s contain scenes that have been shot simultaneously from different angles. For discs recorded with multiple angle, press the **ANGLE** button on the remote control to toggle between available angles on the screen.

Multi-Language Disc

If you are watching a disc recorded in multiple languages, press the **AUDIO** button on the IR remote to choose your desired language. You can also touch **AREA E** and use the  button to change languages.

Changing Subtitle Language

If you are watching a disc recorded in multiple languages with subtitles, press the **SUB-T** button on the IR remote to choose your desired subtitle. You can also touch **AREA E** and use the  button to change languages.

DVD Playback Information

During playback, press the **INFO** button on the IR remote or touch **AREA B** to display the playback information on screen. The following playback will be displayed at the top of the screen.

VCD Playback Information

The information displayed for the **VCD** playback is the same as the **DVD** Playback except the current title number is not shown only the chapter number.

DVD Setup Menu - Language

DVD VIDEO	T: 4/16 C: 1/20	00:01:42	USER LOUD ON	08:06 Rear:OFF
①	③	④	⑥	⑧

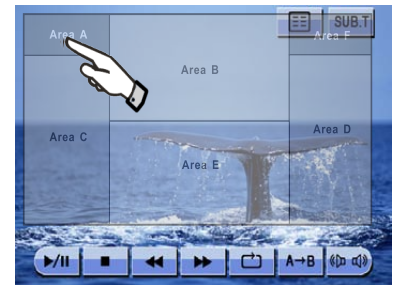
- 1) Indicates current source playing.
- 2) Indicates that the fourth of sixteen title on the **DVD** is currently playing.
- 3) Indicates that the first of twenty chapters on the **DVD** is currently playing.
- 4) Indicates the playback time if the current title.
- 5) Indicates the **USER** defined **EQ** levels or decoding mode when listening to a DVD with 5.1 surround sound.
- 6) Indicates the **SOUND** setting is on.
- 7) Indicates the current system time.
- 8) Indicates the current playback source of the rear zone.

Language Setup Menu

With the monitor open in **DVD** mode and a **DISC** inserted, press the **AREA A** (top left screen) to display the **MAIN** menu bar.



Press **DVD Setup** to access the **DVD** setup menu.



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



Press to select desired disc subtitle language.



ENGLISH
ON
OFF = DEFAULT

Press to select desired disc audio language.



ENGLISH = DEFAULT

Press to select desired disc menu language.



ENGLISH = DEFAULT

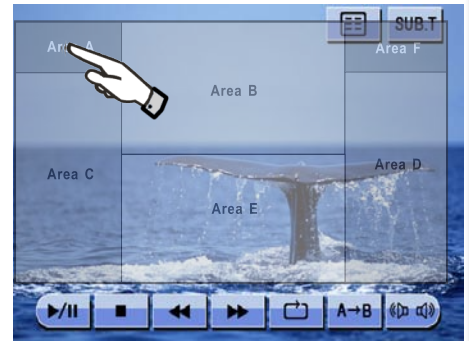
DVD Setup Menu - Video

Video Setup Menu

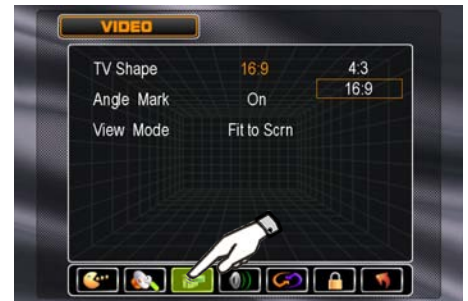
With the monitor open in **DVD** mode and DVD disc inserted, press the **AREA A** (top left screen) to display the **MAIN** menu bar.



Press **DVD Setup** to access the DVD setup menu.

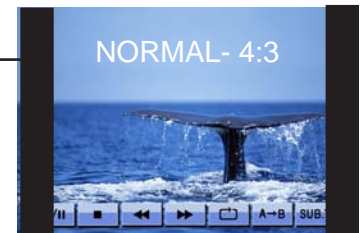
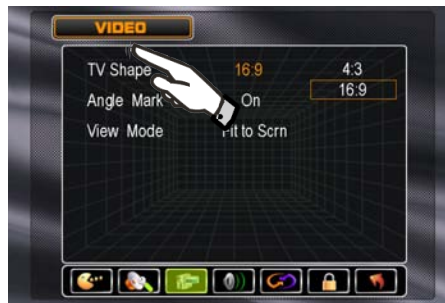


Press **VIDEO** icon to select from the following menus:



TV Shape

Press to select desired TV Shape.



Angle Mark

Press to select desired Angle Mark.



ON
OFF

Video Mode

Press to select desired Video mode.



FILL
ORIGINAL
H FIT
W FIT
FIT TO SCRN
PAN SCAN
OFF

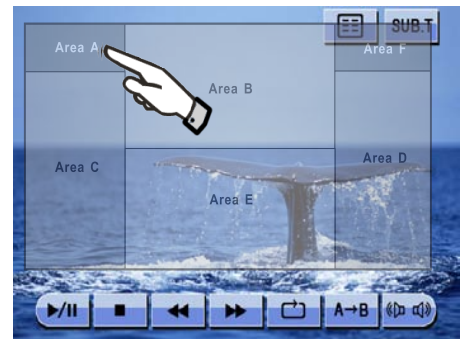
DVD Setup Menu - Ratings

Ratings Setup Menu

With the monitor open in **DVD** mode and a **DVD Disc** inserted, press the **AREA A** (top left screen) to display the MAIN menu bar.



Press **DVD Setup** to access the **DVD** setup menu.



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



Enable Parental Lock Password

Press ---- to enter a your desired password.



Setting Parental Lock Password

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

Rating Setting

Press to select desired Rating Setting.

Parental Password Override

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



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

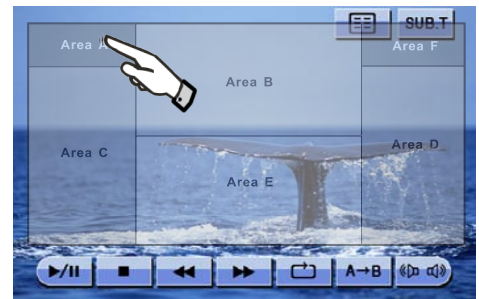
DVD Setup Menu - Audio

Audio Setup Menu

With the unit in **DVD** mode, press **Area A** to display the **MAIN** menu.



Press **DVD Setup** to access the **DVD setup** menu.



Press the **AUDIO** button to access the following menus:



Audio Settings

The **Pink Noise** generator is used to set the relative speaker levels for multi-channel playback. Press to activate **Pink Noise** generator for desired channel.

Downmix (2 channel) Settings



Off = Default
Left
Right

Center Channel Time Delay, in milliseconds



5ms
4ms
3ms
2ms
1ms
0ms = Default

Full 6CH (6 channel) settings



Touch arrow to exit

Rear Channel Time Delay, in milliseconds



15ms
12ms
9ms
6ms
3ms
0ms = Default

Dynamic Range Control



Off = Default
On

Down Sampling*



Off = Default
On

* When Down Sampling is **ON**, the **DVD** audio output will be downsampled to 48kHz. When **OFF**, the original sampling frequency is preserved.

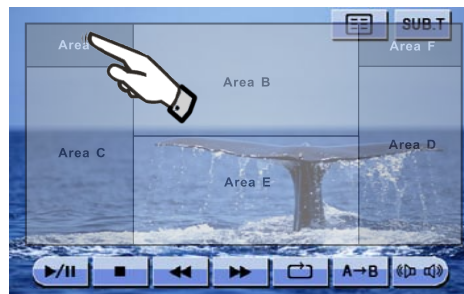
DVD Setup Menu - Speaker

Speaker Setup Menu

With the unit in **DVD** mode, press **Area A** to display the **MAIN** menu.



Press **DVD Setup** to access the **DVD setup** menu.



Press the **SPEAKER** button to access the following menus:



Settings	Default	Options	Function
Speaker Mode	DownMix	Full 6CH	6-channel mode
		DownMix	2-channel mode. The selections below will not be available when using this mode.
Front*	Large	Large	Use when front speakers have good bass output.
		Small	Use when front speakers do not have good bass output
Surround*	Large	Large	Use when rear speakers have good bass output
		Small	Use when rear speakers do not have good bass output
		None	Use when rear speakers are not present
Subwoofer*	None	Present	Use when subwoofer is present
		None	Use when subwoofer is not present
Center*	None	Large	Use when center speaker has good bass output
		Small	Use when center speaker does not have good bass output
		None	Use when a center speaker is not present

*Full 6CH mode must be selected to adjust the speaker size

Speaker Selection

Selecting **LARGE** for the multi-channel speaker option will give a full range output. Selecting **SMALL** for the multi-channel speaker option will activate a high pass filter whose crossover is dependent on the sub-woofer low pass frequency. For example, if the subwoofer low pass filter is set to 80Hz, then the high pass **SMALL** speaker crossover will be set to 90Hz.

Low Pass	High Pass
80 Hz	90 Hz
120 Hz	135Hz
160Hz	180Hz

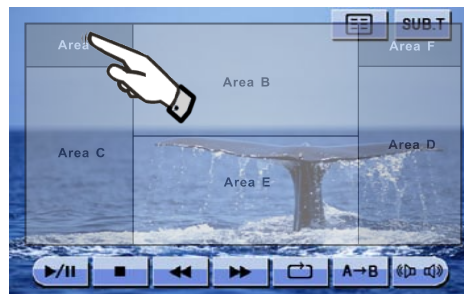
DVD Setup Menu - Surround I

Speaker Setup Menu

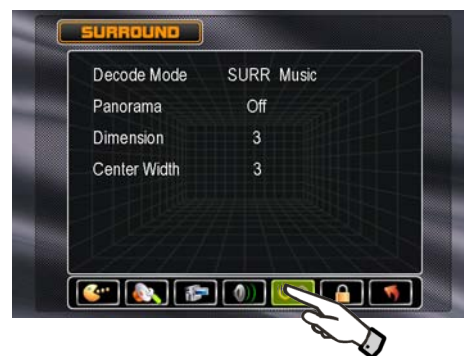
With the unit in **DVD** mode, press **Area A** to display the **MAIN** menu.



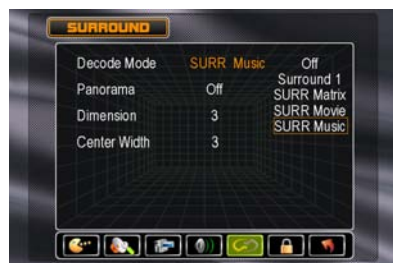
Press **DVD Setup** to access the **DVD setup** menu.



Press the **SPEAKER** button to access the following menus:



Decode Mode



Off
Surround
Matrix
Movie
Music

Panorama Mode*



Off = Default
On

Panorama **ON** extends the front stereo image to include the surround speakers for a wrap around effect.

Dimension*



0
1
2
3 = Default
4
5
6

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

Center Channel Width*



Center width control allows adjustment of the center image to be heard from the center speaker only, from the Left/Right speakers only as a "phantom" center image or various combinations off all three speakers.

*Surround Music decode mode must be selected to activate Panorama Mode or to adjust the Dimension or Center width.

CD/DVD/MP3/WMA Information

Media Compatibility

The following types of discs/files are compatible:

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

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
- JPG 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.

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.

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

Sampling Frequency Rates

MP3	WMA
32kHz ~ 48kHz	32kHz ~ 48kHz

Transfer Bit Rates

MP3	WMA
40kbps~320kbps constant	40kbps~192kbps constant
Variable bit rates	Variable bit rates

Recommended Settings for Burning Discs

MP3
128kbps or higher constant bit rate
44.1kHz or higher sampling frequency

WMA
64kbps or higher constant bit rate
44kHz or higher sampling frequency

DVD

CD Operation



- 1) Current source indicator, touch **AREA A** to access **MAIN** source menu
- 2) Disc title.
- 3) Track title.
- 4) Current **TIME**.
- 5) Touch to activate / deactivate **REPEAT**: Single mode.
- 6) Touch to activate / deactivate **RANDOM** mode.
- 7) Touch to access the **DIRECT TRACK** access keypad
- 8) Touch to **SCAN CD** tracks for 5 sec each track, touch again to deactivate.
- 9) Touch to **FAST FORWARD** current track.
- 10) Touch to **FAST REVERSE** current track.
- 11) Touch to **PAGE** up.
- 12) Touch to **PAGE** down.
- 13) Touch to **STOP** disc playback.
- 14) Touch to **PLAY / PAUSE** disc playback.
- 15) Volume indicator.
- 16) Playback information.
- 17) Elapsed playback time.
- 18) Current track and total number of tracks on the disc.

Ratings Setup Menu

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



Touch to playback track



Touch for **DIRECT TRACK** access



Touch to view **UP / DOWN** pages of available **TRACKS**

MP3/WMA Operation



- 1) Current source indicator, touch **AREA A** to access **MAIN** source menu
- 2) Disc title.
- 3) Track title.
- 4) Current **TIME**.
- 5) Touch to **PLAY / PAUSE** disc playback.
- 6) Touch to **STOP** disc playback.
- 7) Touch to **PAGE** down.
- 8) Touch to **PAGE** up.
- 9) Touch to **PREVIOUS FOLDER**.
- 10) Touch to **NEXT FOLDER**.
- 11) Touch to **FAST FORWARD** MP3 tracks, touch **PLAY** to deactivate.
- 12) Touch to activate / deactivate **REPEAT**: Single mode.
- 13) Touch to activate / deactivate **RANDOM** mode.
- 14) Touch to access the **DIRECT TRACK** access keypad.
- 15) Current track and total number of tracks on the disc.
- 16) Elapsed playback time.
- 17) Playback information.
- 18) Volume indicator.

Playing MP3/WMA Files

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



Touch to playback single track



Touch to for **DIRECT TRACK** access



Touch to view **UP / DOWN** pages of available **TRACKS**

iPod Operation



To switch to iPod press the **MODE** button on the front panel or **IR** remote or from the **MAIN** source menu

- 1) Current source indicator, touch **AREA A** to access **MAIN** source menu
- 2) Disc title.
- 3) Track title.
- 4) Current **TIME**.
- 5) Touch to **PLAY / PAUSE** disc playback.
- 6) Touch to **STOP** disc playback.
- 7) Touch to **PAGE** down.
- 8) Touch to **PAGE** up.
- 9) Touch to **FAST REVERSE** current song.
- 10) Touch to **FAST FORWARD** current song.
- 11) Touch to **SCAN SONGS** for 5sec each **SONG**, touch again to deactivate.
- 12) Touch to wait for iPod **VIDEO** or **PHOTO**.
- 13) Touch to activate / deactivate **REPEAT**: Single mode.
- 14) Touch to activate / deactivate **RANDOM** mode.
- 15) Touch to access root directory.
- 16) Touch to access **DIRECT SONG** access keypad.
- 17) Touch to display song list.
- 18) Current song and total number of songs on the disc.
- 19) Elapsed playback time.
- 20) Playback information.
- 21) Volume indicator.

Playing iPod Files

After connecting an iPod, files will play in numerical order in the directory.



Touch to playback single **SONG**
N



Touch for **DIRECT SONG** access



Touch to view **UP / DOWN**
pages of available

iPod Operation

Notes:

1. **PHOTO FILES** are only compatible with **NANO** and **G5 iPod**
2. **VIDEO FILES** are only compatible with **G5 iPod**

Playing Photo or Video File From iPod

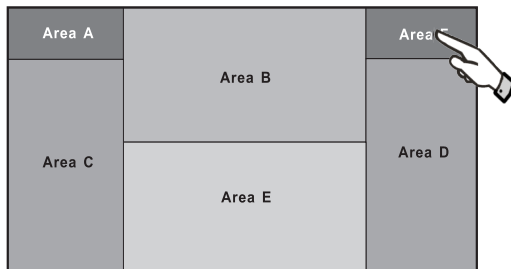
- 1) Make sure the following options through the iPod video settings menu are set to: TV Out = **ON**, Signal = **NTSC** and Widescreen = **ON**.*
- 2) Touch **VIDEO** icon
- 3) Press **PLAY** on your iPod, video should now appear on the Monitor

*Consult your iPod owners manual for details.



Releasing Video Content from iPod

Touch **AREA F** (upper right screen) to reconnect iPod to play music again.



Selecting Music By:

- Playlist
- Artist
- Album
- Genre
- Song

Touch desired Folder, music will begin to play after selection.

Direct Song Access

- 1) Touch the Keypad icon, keypad will appear.
- 2) Enter the desired song you wish to play.
- 3) Enter **OK**.

iPod Will Now Reconnect



XM Radio Operation

Activating Your XM Receiver (when connected):

- 1) Touch top left corner of screen.
- 2) Touch to access **XM MODE**, **XM Receiver** must be connected to activate
- 3) Verify channel 1 (**XM Preview Channel**) is playing.
- 4) Select Channel 0. The **XM** receiver's eight character Radio ID number will appear on the **CH-4100** display. The Radio ID number is also located on the **XM** receiver unit (sold separately).
- 5) Record the number here for future reference:

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

- 6) Activate your **XM** Satellite Radio service, log onto <http://www.xmradio.com/activation> or call 1-800-967-2346.

Notes:

You will need to keep your **TY-6100** turned on for at least one hour after requesting activation to receive the full channel line-up.





- | | |
|--|-----------------------------------|
| 1) indicator for XM MODE | 10) Increment Channel up |
| 2) Antenna signal strength meter for XM | 11) Increment Channel down |
| 3) Song Name | 12) Selection for CATEGORY |
| 4) Page up button for PRESET | 13) Band selection for XM |
| 5) Entry keypad for DIRECT Channel | 14) Song Title |
| 6) Page down button for PRESET | 15) Volume Indicator |
| 7) XM Station SCAN | 16) Name for CATEGORY |
| 8) Channel up for CATEGORY | 17) Station Name |
| 9) Channel down for CATEGORY | 18) Band indicator for XM |

XM Radio Operation

Tuning Modes

Touch  to select between **XM**, **XM1**, **XM2** and **XM3** bands.


Channel Slection

Touch   momentarily to select the next available channel.

Storing and Recalling Preset Channels


Up to 48 **XM** channels can be stored. To store a channel, select **XM**, **XM1**, **XM2** or **XM3** band and the desired channel. Press and hold the desired preset button (1-12) for more than 2 seconds. When stored, the preset number will now be highlighted by a box and the station will appear in the display. The channel can be recalled anytime by pressing the corresponding preset button.

Direct Channel Selection



Touch  to select **XM DIRECT** channel entry. Enter the desired channel using buttons 1-0, then press OK to confirm the selected channel. If the channel is not available, the current channel will be retained.



Channel Search by Category


Touch  once to display the category list. Touch your desired **CATEGORY**.

Channel Search by Category

Touch   momentarily to select the next available channel within a **CATEGORY** you have entered into.



Exit Category Mode

To exit **CATEGORY** mode, touch the  button to resume normal **XM CHANNEL** selections.

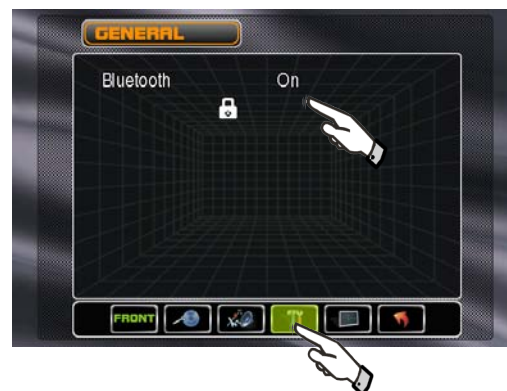


Bluetooth Operation

Activating Bluetooth Operation

Select Bluetooth option in the General Setup (see page 11 to access General Setup) and select **ON** to activate the Bluetooth feature.

From the **Main Menu**, touch the **Bluetooth** icon on the screen.



- 1) Displays current mode.
- 2) Press Talk Button to answer an incoming call or to place an outgoing call.
- 3) Display Indicator showing the phone number and call status.
- 4) When the Bluetooth function is OFF, the Bluetooth Status 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) Press 0 -9, *, # and + to enter phone number on the Keypad Interface. Press C to clear the last digit.
- 6) Press to transfer audio between the head unit and mobile phone.
- 7) Press to END a call in progress or to reject an incoming call.
- 8) Touch to RETURN to previous screen
- 9) Press to access Bluetooth Setup Menu
- 10) Press to access Phone Book Menu
- 11) Press to display the Keypad Interface.

Bluetooth Setup Menu



Settings	Default	Options	Function
Pairing	Yes	Yes (Pair)	Press YES to begin the pairing function. Press YES again to cancel.
Auto Answer	Off	Off	Talk button must be pressed to answer incoming calls.
		On	Head unit will automatically answer incoming calls.
Connect	Manual	Manual	Connect phone to head unit each time.
		Auto	Head unit will automatically connect to previously paired phone.

Bluetooth Operation

Bluetooth Setup

Pairing

Access Bluetooth setup menu and press **YES** option on the screen, then "Wait Pairing..." will display. Now you can pair a mobile device with the unit. When prompted by your mobile device, enter 1234 for the PIN or pass code. After the pairing process has completed, the Bluetooth icon will turn solid blue. This unit can remember 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 and set as the default phone.

Auto Connect

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 the Manual when you do not want to connect to any Bluetooth mobile device.

Auto Answer



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.

Bluetooth Phone Book Menu



Phonebook

Press the phone book icon to access the phone book. You can see the phone book list, SIM book list, dialed call list, received call list and missed call list. Touch the desired name to call.

Press  or  to navigate through the phone list.

Making a Phone Call

Phone calls can be completed four different ways:

- 1) Enter the desired number using the keypad interface, then press the **Talk Button**
- 2) Enter the desired number using the numeric keypad on the remote, then press **OK**.
- 3) Select a previous call from the phone book menu.
- 4) If your phone supports voice dial, access this mode on your phone instead of using the phonebook.

Answering a Phone Call

When calls come in, the interface will display on the screen. 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 volume controls on the main unit.

Ending a Phone Call

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

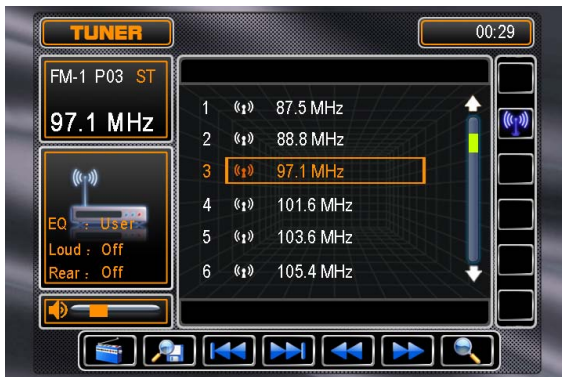
Navigating Operation

Accessing Navigation

Access the **MAIN** menu by pressing the NAVI button on the front panel, pressing the SRC button on the front panel or touching **Area A** or the upper left hand corner of the screen and select the **NAVI** button to enter the Navigation Operation interface.

Notes:

SNAV-1 , SPiN3510 or SPiN3550 must be connected to access navigation mode.



Navigation Operation

Please refer to the SNAV-1 or P-NAVi navigation user manuals.

Listening to an Audio Program while using/viewing the Navigation

You can listen to an audio program while using Navigation. To do so, do the following:

- 1) Select the audio source. The source can be the **Tuner**, **Satellite Radio**, **iPod** or the audio from the **AUX** input.
- 2) Touch the **NAVI** button on the front panel to select Navigation. The map will be shown on the Monitor and audio will continue to play while you are in Navigation mode.
- 3) Navigation voice prompts will mute the audio source, give the instruction and then return to the audio source.
- 4) To adjust a parameter of the audio source, for example selecting another radio station, touch the **NAVI** button. This will return you to the audio source screen. Make the adjustments and then press the **NAVI** button to return to the Navigation function. Navigation will continue while you are in an audio source screen and voice prompts will continue while you make adjustments.

Multi-Zone Operation

Multi-Zone Operation

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

Multi-Zone Menu Access

1. The **MAIN** menu can be access by pressing the **MENU** button on the remote or by touching the Area A (upper left hand side) on the monitor.
2. Press and hold the **REAR** button on the front panel to turn the Multi-Zone on.
3. Press the desired source from the **REAR** zone menu.

Selecting a Front Zone Source

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

Notes:

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

Front Zone Standby

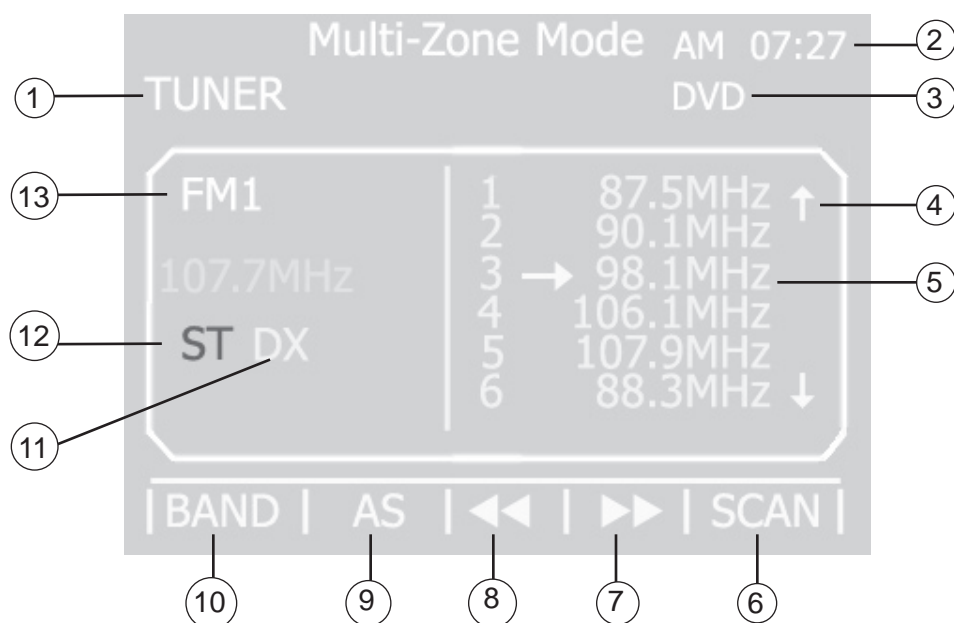
To conserve the **LCD** backlight lifespan or to eliminate glare while night driving, press **STANDBY**. The monitor screen will black out, however all other operations continue to operate. Press any button except **VOLUME** or touch the screen again to return to normal viewing.



Touch Access Buttons

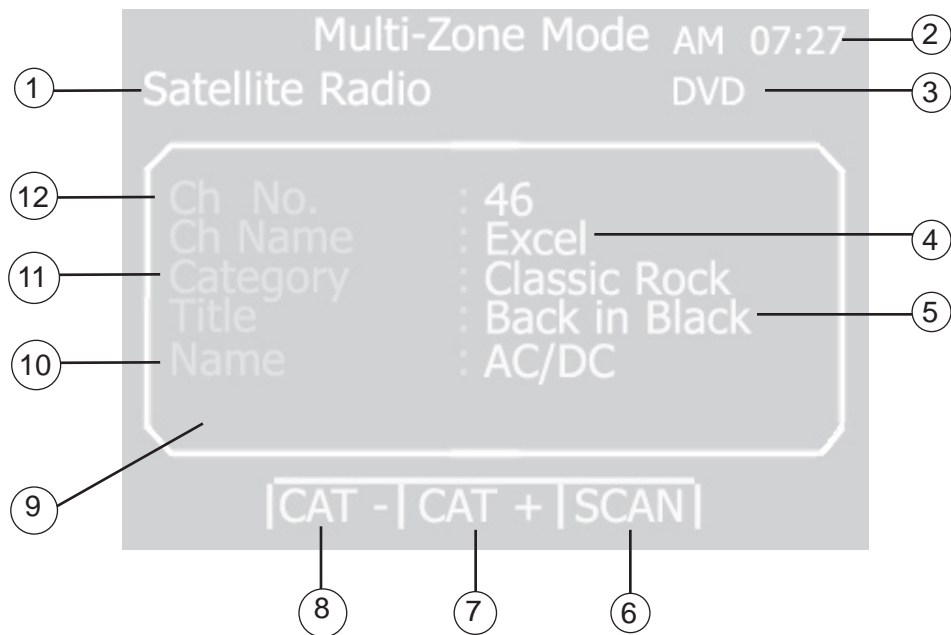
- | | |
|--|--|
| 1) Touch to access CD/DVD mode, CD/DVD must be inserted | 5) Touch to access MAIN source menu. |
| 2) Touch to set CAMERA mode as Multi-Zone mode, if optional camera isn't connected then "No Video Signal" will display. | 6) Touch to access Multi-Zone source menu |
| 3) Touch to set AUXILIARY A/V INPUT mode as the Multi-Zone. | 7) Touch to access ASP configuration. |
| 4) Touch to set Multi-Zone mode into STANDBY (off). | 8) Touch to access CD/DVD SETUP menu. (CD/DVD must be inserted to function) |
| | 9) Touch to access GENERAL SETUP menu. |
| | 10) Touch to access SCREEN SETUP menu. |
| | 11) Touch to return to previous screen. |

Multi-Zone AM/FM Tuner



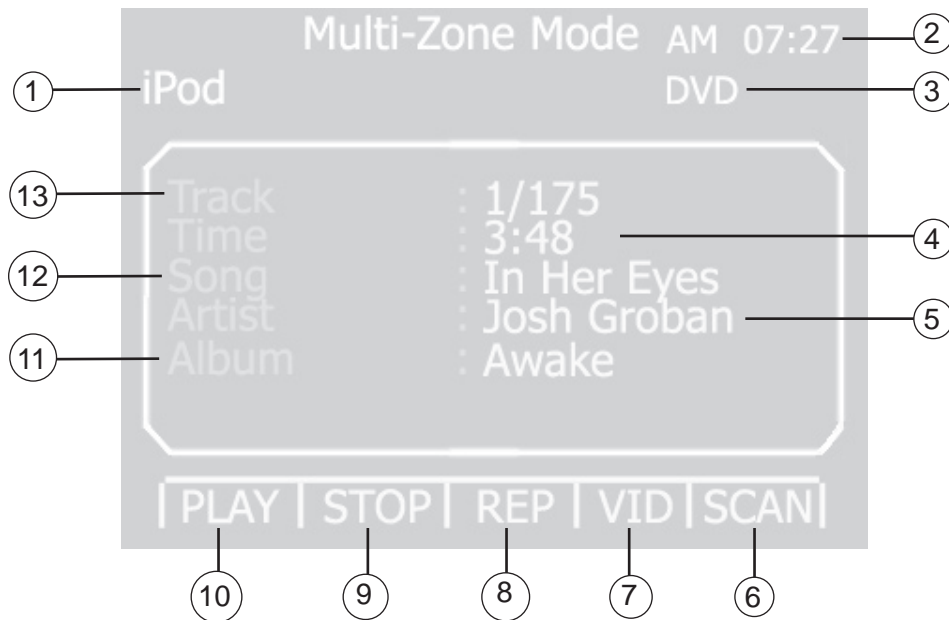
- 1) Indicator for **MAIN ZONE**
- 2) Displays current time on **CLOCK INDICATOR**
- 3) Indicator for **MULTI-ZONE**
- 4) Page up/down arrow for **PRESET PAGE**
- 5) Shows the preset station list by frequency for the **PRESET NUMBER LIST DISPLAY**. Touch and hold frequency to store presets.
- 6) Touch the **TUNER SCAN** to scan through all available stations in the current band.
- 7) Touching the **TUNE FREQUENCY UP** icon will tune the radio to a higher frequency by one frequency step.
- 8) Touching the **TUNE FREQUENCY DOWN** icon will tune the radio to a lower frequency by one frequency step.
- 9) Touching the **PRESET SCAN/AUTO STATION STORE** button 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.
- 10) Touch the **BAND** button repeatedly until the desired band is displayed **FM1, FM2, FM3** or **AM**
- 11) Press the **LOCAL/DX TUNING MODE** button to select between local or distance tuning.
- 12) Indicator for **STEREO**, showing that the frequency selected is received in stereo. **ST** will change to red during stereo reception.
- 13) The **BAND INDICATOR** shows the current band **FM1, FM2, FM3** or **AM**

Multi-Zone XM Radio



- 1) Indicator for **MAIN ZONE**
- 2) Displays current time on **CLOCK INDICATOR**
- 3) Indicator for **MULTI-ZONE**
- 4) Displays the **CHANNEL NAME**
- 5) Displays the **TITLE** of the current song
- 6) Touch **CHANNEL SCAN** to scan through all available available channels, pausing for 10 seconds on each channel. Touch again to cancel. **SCAN** will change to green when the scan function is active.
- 7) Touching **CATEGORY NEXT CHANNEL** will select the next available channel in the current category
- 8) Touching **CATEGORY PREVIOUS CHANNEL** will select the previous available channel in the current category
- 9) Show which **XM BANK** is currently displayed
- 10) Displays the **NAME** of the artist for the current song
- 11) Displays the **CATEGORY** of the current channel.
- 12) Display the **CHANNEL** number

Multi-Zone iPod



- 1) Indicator for **MAIN ZONE**
- 2) Displays current time on **CLOCK INDICATOR**
- 3) Indicator for **MULTI-ZONE**
- 4) Displays the **TIME ELAPSED** of the current song
- 5) Displays the **NAME** of the artist for the current song
- 6) Touch **SONG SCAN** to scan through all available available songs, pausing for 10 seconds on each song. Touch again to cancel. **SCAN** will change to green when the scan function is active.
- 7) Touch to access **VIDEO MODE**. iPod will disconnect and wait for video signal. Press **VID** again to cancel.
- 8) Touching **REPEAT** to repeat current song. Touch again to cancel. **REP** will change to green when the repeat function is active.
- 9) Touching **STOP** to stop the song where it is. **STOP** will change to green.
- 10) Touch **PLAY** to temporarily stop playback. Touch PLAY again to resume playback. PLAY will change to white during pause.
- 11) Displays the **ALBUM** name of the current song
- 12) Displays the **TITLE** of the current song
- 13) Displays the **TRACK** number of the current song

Limited One Year Warranty

Limited One Year Warranty Applies to Multimedia Headunits

Who is covered?

PRIORITY AUDIO (the Company) extends this warranty to the original retail purchaser of products purchased through an authorized **PRIORITY AUDIO** retailer in the U.S.A. or Canada. This warranty is not transferable or assignable.

What is covered?

The Company warrants that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the Company's option) without charge for parts and repair labor.

What is not covered?

This Warranty does not cover the following:

- Any product not distributed by **PRIORITY AUDIO** within the United States or Canada
- Damage incurred during shipping (claims must be addressed to the carrier)
- Incidental damages related to transporting the product to a service center, including loss of personal time, transportation costs, and loss of use of product
- Elimination of car static or motor noise
- Correction of antenna problems
- Costs incurred for installation, removal, or reinstallation of the product
- Consequential damage to compact discs, USB devices, digital media cards, cell phones and other accessories or property
- Damage to vehicle electrical systems. Alteration, improper installation, mishandling, misuse, neglect, accident, blown fuse, battery leakage, theft or improper storage. Exposure to moisture, humidity, excessive temperature or extreme environmental conditions. External natural forces, including without limitation, fire, flood, earthquake, sand or storm
- Products subjected to removal or defacement of the factory serial number/bar code label(s) or markings
- Service performed by an unauthorized person, company or association.

- Any product which has been adjusted altered or modified without **PRIORITY AUDIO**'S consent.
- Defects in cosmetic, decorative or non-operative structural parts such as framing

Please review the "Safety Information" and "Care and Installation" section of this Operation Manual for additional information regarding the proper use of your product.

Limitations

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. **ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER.** No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

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

Obtaining Warranty Service

To obtain warranty repair or replacement within the terms, contact 1-877-305-8972 for location of warranty station serving your area.

Troubleshooting

	Problem	Cause	Solution
Basic Unit Operation	Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
		Red wire not connected or incorrect voltage	
		Black wire not connected	Check connection to ground
		Fuse blown	Replace fuse
	Unit has power (but no sound)	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
	Unit blows fuse	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
	Unit has audio (but no video)	Parking brake safety circuit not connected	Check connections at parking brake
		Parking brake not applied	Apply parking brake
	No video display (when in reverse)	Reverse circuit not connected Vehicle is not in reverse	Check connections at reverse lamp Select reverse gear
	DVD does not start playback	Physical defect in media Wrong region	Check media for scratches Use discs labeled "Region 1" or "All" only.
	IR remote does not work	Dead battery	Replace battery
	Excessive skipping	Unit is not mounted correctly	Check mounting sleeve
		Physical defect in media	Check media for scratches
	ERR-DISC appears on display	Focus error or disc is in upside down	Press eject or RESET
	Region code error appears on display	Region code error	Use only DVDs labeled "Region 1" or "All" only.
	Front panel will not open/close	Front panel obstructed	Remove the obstacle and press OPEN again to resume the monitor open/close sequence.
MP3	Weak station searching	Auto antenna is not fully extended	Connect the auto antenna control cable properly
		Auto antenna not properly connected	Connect the auto antenna control cable properly
		Local function is activated	Turn LOCAL function OFF
iPod	Unit resets itself when engine is off	Incorrect connection between ACC and positive battery wire	Check wiring and correct
	Interruption during playback	Disc is dirty or scratched	Clean disk or replace
		File is damaged/bad recording	Recreate disc with good files
	Incorrect playback message displayed	Message is longer than LCD can display.	
	iPod source not available	Incorrect cable connections	Check connection of the inport adapter to rear of radio or connection of iPod to inport adapter
iPod	Cannot see video and photo media on TFT screen	Wrong iPod Video Settings	Change iPod video settings to TV Out Check yellow RCA cable from the inport adapter to the radio
	All other errors		Refer to the IPOD FAQ section on the website

Troubleshooting

	Problem	Cause	Solution
XM Radio	OFF AIR appears on display	The selected channel is not in service The antenna cable is damaged	Try another channel Check for pinched or cut antenna cable
	No song title or artist name is displayed	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
	You can not receive any XM channels	Your XM Radio receiver is not activated	Contact XM
	You can not tune into a specific XM channel	You may not be authorized to receive that channel	Verify your subscription with XM Contact
	NO SIGNAL appears on display	The XM signal is blocked This message may appear when driving inside a tunnel or under obstacles	Move vehicle from obstructed area (such as inside a tunnel or a garage)
	CHK ANTENNA appears on display	The XM antenna is not connected	Check XM antenna connection. Make sure the antenna has a clear view of the sky
Bluetooth	Please connect first appears in the display	There is no mobile device connected to the head unit.	Pair and or connect a mobile device to the head unit as described under Bluetooth Operation.
	Mobile device will not connect to the head unit.	Bluetooth function is not active on the head unit.	Activate Bluetooth function in General Setup
		Bluetooth function is not active on the mobile device	Refer to owner's manual of your mobile device.
		A mobile device is already connected to the head unit. This time the head unit can only be connected to one device at a time.	Disconnect current mobile device first, then connect the desired mobile device
	ERROR! Connect Timeout appears on display	The time limit for the pairing mobile device has been reached	Pair the mobile device within 120 seconds
	Pairing Fail appears in display	The attempted pairing process has failed.	Retry the pairing process again.
	Mobile device will not connect to the head unit automatically.	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 37.
	Ring tone cannot be heard through the speakers	Ring tone volume is turned down	Increase the volume of the ring tones using the up and down volume control during the ringing process
		MUTE function is activated in the head unit	Press MUTE to cancel the mute function and resume audio
	Echo or noise is heard during a phone call	Possible road noise or interior interference	Close all 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
	Call is connected (but no audio can be heard through the speakers)	Audio is routed to the mobile device	Press Audio Transfer to allow audio from the phone to be heard through the speakers
Navigation	Call is answered automatically	Auto Answer function is set to ON	Set Auto Answer function to OFF as described on page 37
	Caller ID does not appear during incoming call	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.
	Refer to SNAV-1 or P-NAVi owners manual		

Notes



Specifications

General

Operating voltage: 11-16 VDC, neg. gnd
Speaker output impedance: 4~8 ohms
Line output voltage: 2 Volts
Line output impedance: 200 ohms
Chassis dimensions: 2" x 7" x 7"
(51 x178 x178 mm)

FM Tuner

Tuning range: 87.5MHz-107.9MHz
Usable sensitivity: 8.5dBf
50dB quieting sensitivity: 10dBf
Stereo separation @ 1kHz: 40dB
Frequency response: 30Hz-13kHz

AM Tuner

Tuning range: 530kHz-1710kHz
Usable sensitivity: 22uV
Frequency response: 30Hz-2.2kHz

DVD Player

Frequency response: 10Hz-20kHz
Channel separation @ 1kHz: >65dB
D/A converter: 24 Bit

Monitor

Resolution: 960 W x 234 H
Brightness (cd/m²): 350
Contrast ratio: 300:1
Elements: 224,640
View angle (up/down/left/right): 30/60/60/60
Panel size (diagonal): 4.5" (114.3 mm)

Design and specifications subject to change without notice.



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

Power Output: 22 Watts RMS x 4 channels at 4 ohms and $\leq 1\%$ THD+N
Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)

Copyright Notes

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www.oeradio.com

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