



### **XDVD8183N**

### **INSTALLATION/OWNER'S MANUAL**

DVD Multimedia Receiver with 7" 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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## XDVD8183N PREPARATION audio.video

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#### **DVD Region Management**

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8183N 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 XDVD8183N 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







### **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 XDVD8183N 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 12 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**

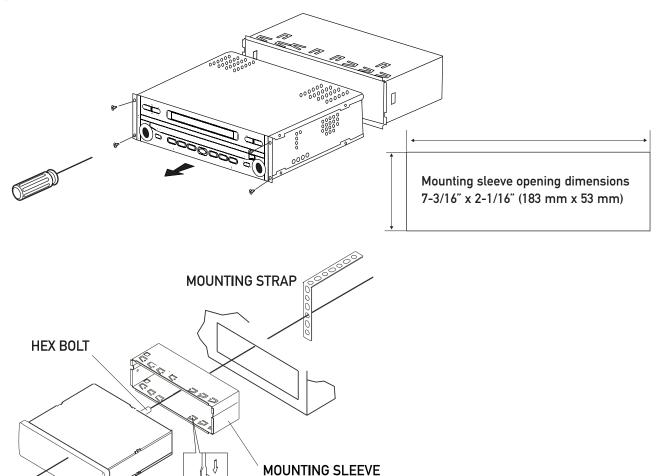
Please read entire manual before installation.

#### **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.

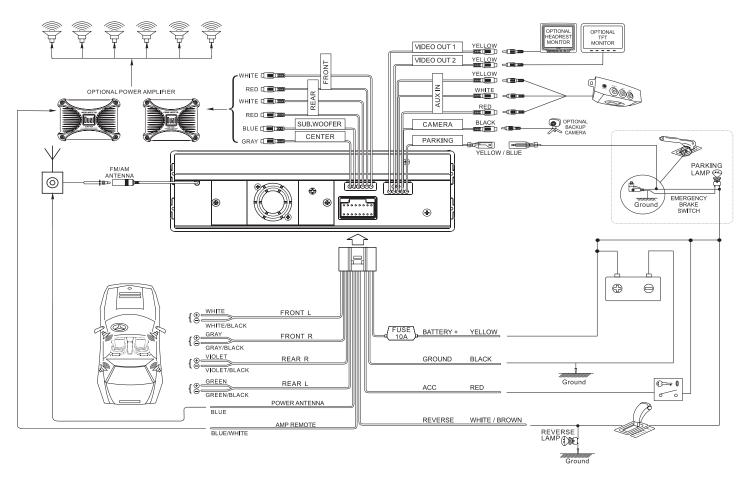
#### **Getting Started**

- Slide the unit out of the 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 slide unit into mounting sleeve.
- Attach unit to mounting sleeve using supplied #1 Phillips screws.
- Snap trim ring into place.
- Mount the iplug<sup>™</sup> adapter to any smooth clean surface using the supplied double-sided tape or Phillips head screws.



TYPICAL FRONT-LOAD DIN MOUNTING METHOD

### **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 audio mode and must be connected to an external amplifier.

#### Rear view camera

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

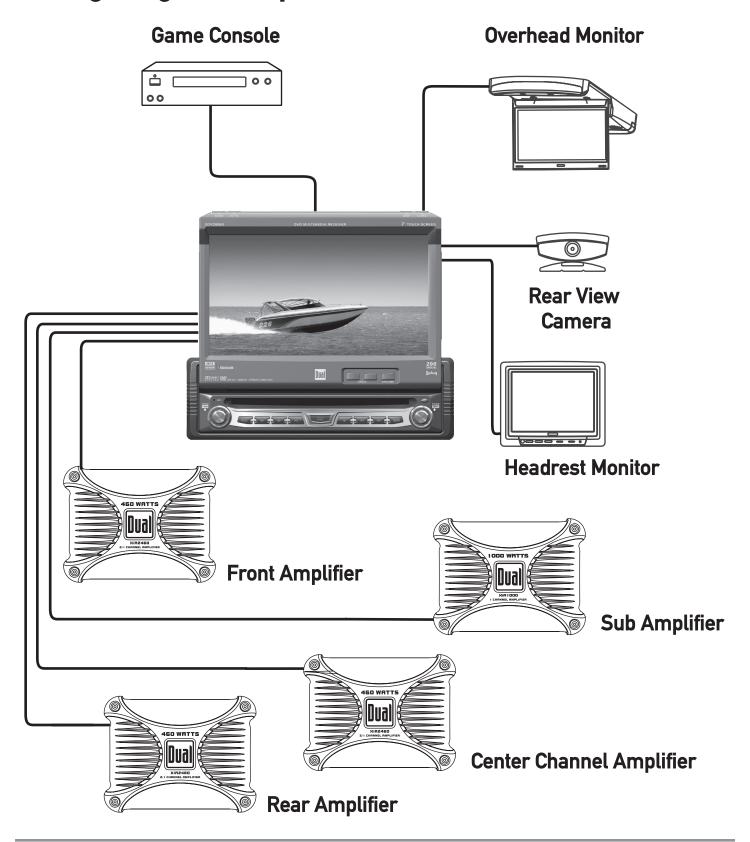
#### **NEED HELP??**

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

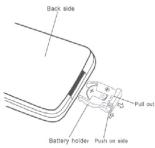


#### Notes:

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

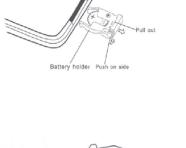
Insert or replacing the Battery:

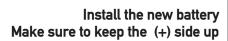
Remove the battery holder



### Remove the battery from the battery

holder

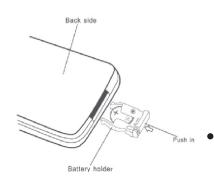








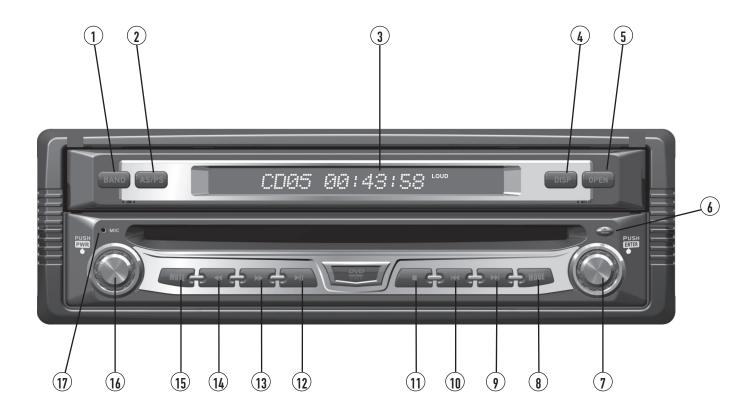
Insert the battery holder



CAUTION!!!

Do not store battery with metallic objects or materials

### **Control Locations - Monitor Closed**



- 1 Band
- (2) Auto Store/Preset Scan
- 3 Secondary LCD
- (4) Display
- (5) Open/Close Monitor
- (6) Eject
- (7) Rotary Encoder/Enter
- (8) Mode
- 9 Chapter/Track Up/Seek Up

- (10) Chapter/Track Down/Seek Down
- (11) Stop
- (12) Play/Pause
- (13) Fast Forward/Manual Tune Up
- (14) Fast Reverse/Manual Tune Down
- (15) Mute
- (16) Power/Volume
- (17) 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 up/down by hand. Use the ANGLE ▲/▼ or OPEN buttons on the front panel only.
- The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press **OPEN** again to resume the monitor open/close sequence.

### **Control Functions - Monitor Closed**

**BAND** | Press **BAND** to increment from FM1, FM2, FM3, AM ⇒ FM1.

AS/PS Press AS/PS momentarily to start station PRESET SCAN function,

(Auto Store /Preset Scan) Press AS/PS for 2 seconds to start AUTO STORE station preset function in

current BAND.

**SECONDARY LCD** Additional **LCD** for system information while monitor is closed.

**DISP** Press the **DISP** button to display various information on the secondary **LCD**.

**OPEN** Press **OPEN** to open or close the monitor. The unit will emit a confirmation

beep when opening and closing. Be careful not to touch or obstruct the monitor movement during the open/close sequence, or permanent damage

could occur.

**EJECT** Press once to eject disc.

**ROTARY** Rotate clockwise/counter-clockwise to select desired item and press once to

ENTER.

**MODE** Press once to incrementally select desired source.

**TRACK/SEEK UP** Selects the next chapter/track/radio station.

TRACK/SEEK DOWN Selects the previous chapter/track/radio station.

**STOP** Stop playback of DVD/CD/MP3.

**PLAY/PAUSE** Press once for **PAUSE**, press again for **PLAY**.

**FAST FORWARD/TUNE UP** Fast forwards the chapter/track or selects the next radio frequency.

**FAST REVERSE/TUNE DOWN** Fast reverses the chapter/track or selects the previous frequency.

MUTE | Press once to MUTE audio, MUTE will appear in the secondary LCD. Press

again to return audio.

**POWER ON/OFF** Press **POWER** momentarily to turn the unit on.

Press and hold **POWER** for more than 2 seconds to turn the unit off.

Note: EJECT will still function even if POWER is off.

**VOLUME** Rotate clockwise/counter clockwise for desired **VOLUME** level.

### Control Locations - Monitor Open



- 1) Disc-in indicator Red = Disc inserted, Blue = No disc.
- 2 ANGLE ▼ Press to decrease the monitor view angle.
- 3 ANGLE ▲ Press to increase the monitor view angle.
- (4) INFO Press to select DVD INFO and press and hold for BRIGHTNESS.
- 5 Press to **RESET** system.

#### **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 Functions - Monitor Open**

Disc-in indicator

Blue = No disc Red = Disc inserted

Monitor Angle ▲ ▼

Press **ANGLE** ▲ to increase the monitor view angle.

Press **ANGLE** ▼ to decrease the monitor view angle.

#### Notes:

- Do not attempt to move the monitor up/down by hand severe damage will occur. Use the front panel buttons or the remote control only.
- The color of the LCD monitor varies between viewing angles. Select the angle with the most optimum view for your location.
- The last position of the monitor will be saved in memory. The monitor will return to its last position automatically the next time it is opened.

INFO/PIC

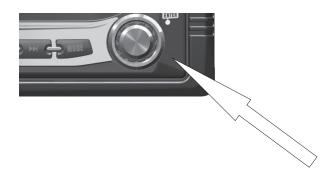
Press INFO button for 1 second to display DVD disc information.

Press and hold INFO for 2 seconds to change TFT LCD BRIGHTNESS:

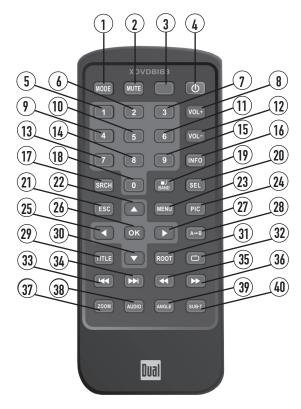
Press ANGLE ▲ to increase, ANGLE ▼ to decrease or use VOLUME rotary to adjust the level up or down, (0 minimum/20 maximum), 10 is default.

**SYSTEM RESET** 

If you experience abnormal operation or, your unit is inoperable, press the **RESET** button for 3 seconds, located on the front bottom-right corner of the unit. After a system reset, the unit restores all factory default settings. **Note**: Use the tip of a pen to access the button.



### **Control Locations - Remote**



- Mode
- Mute
- (3) Open/Close
- (4) Power
- (5) Key #1
- (6) Key #2
- (7) Key #3
- (8) Volume Up
- (9) Key #4
- (10) Key #5
- (11) Key #6
- (12) Volume Down
- (13) Key #7
- (14) Key #8
- (15) Key #9

- (16) Info
- (17) Search
- (18) Key #0
- (19) Band/Stop
- (20) Audio Select
- Escape
- (22) 4-Way Up
- (23) Menu
- Picture
- (25) 4-Way Left
- 0K
- (27) 4-Way Right
- (28) Repeat A-B
- Title Menu/CD Scan
- 4-Way Down

- (31) Root
- (32) Repeat
- (33) Chapter/Track/Seek Down
- (34) Chapter/Track/Seek Down
- (35) Fast Reverse/Manual Tune Down
- (36) Fast Forward/Manual Tune Up
- (37) Zoom
- (38) Audio
- (39) Angle
- (40) Sub-Title

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



### **Control Functions - Remote**

Mode | Press once to incrementally select desired source.

Mute | Press once to **MUTE** 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 **BAND**.

Volume Up Increase VOLUME.

Volume Down Decrease **VOLUME**.

Info | Displays DVD information.

Search | Search function in the DVD/CD disc mode.

Band / Stop | Press to increment BAND, or STOP while in DVD/MP3 mode.

Audio Select | Enter AUDIO Setup mode.

Escape | Exit current menu.

4-Way -Up/Down/Left/Right | Navigating system and DVD menus.

Menu Enter the MAIN system menu.

Picture | **BRIGHTNESS** 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.

Root Enters the main menu of the DVD disc.

Repeat | Repeats playback of current DVD chapter.

Chapter/Track Down | Selects the previous chapter/track for playback.

Chapter/Track Up | Selects the next chapter/track for playback.

Fast Rewind | Fast rewinds the disc content.

Fast Forward | Fast forwards the disc content.

Zoom Zooming in/out on an image from DVD disc.

Audio Change the audio language for DVD disc playback.

Angle | Plays DVD disc in different angle for a scene.

Sub-Title | Language selection for subtitle.

Power On/Off

Press POWER momentarily to turn the unit on.

Press and hold POWER for more than 2 seconds to turn the unit off.

Note: EJECT will still function even if POWER is off.

Monitor Open/Close

Press **OPEN** to open or close the monitor. The unit will emit a confirmation beep when opening and closing. Be careful not to touch the monitor during the open/close sequence.

#### Notes:

- The unit will stop automatically during open/close if an obstacle is detected.
   If this occurs, remove the obstacle and press OPEN again to resume the monitor open/close sequence.
- Audio can be heard while the monitor is closed.

**Monitor Angle Position** 

Press **ANGLE** ▲ to increase the monitor view angle.

Press **ANGLE** ▼ to decrease the monitor view angle.

#### Notes:

- Do not attempt to move the monitor up/down by hand severe damage will occur. Use the front panel buttons or the remote control only.
- The color of the LCD monitor varies between viewing angles. Select the angle with the most optimum view for your location.
- The last position of the monitor can be saved in memory. The monitor will return to its last position automatically the next time it is opened.

#### Notes:

- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, a blue "CAUTION" screen will show on the display when the vehicle's parking brake is not engaged. DVD and AUX IN audio can be heard while the vehicle is in motion.
- 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.

See DVD operation on page 33 for more details on how to initialize the **PARKING BRAKE**.

Mode

Press MODE to select between TUNER, DVD, AUX IN and CAMERA inputs. Modes of operation are indicated in the OSD (On Screen Display) and secondary LCD.

**Optional Mode Selection** 

With the monitor open, press the screen to display the OSD menu bar and press TUNER, DVD, AUX IN or CAMERA in the MAIN menu page to select the desired source.

Volume

Adjust **VOLUME** using rotary encoder or the **VOL** ▲ ▼ buttons (00-40).

Mute

Press **MUTE** to silence the audio; **X** will appear in the **OSD**. Press **MUTE** again to cancel.

Audio Adjustment from front panel

Press in VOLUME rotary knob on left front panel,

Press in VOLUME again to advance to desired parameter to be changed,

Turn VOLUME rotary of or o to adjust to desired level,

Press in VOLUME to advance to next selection,

Press and hold the **VOLUME** button on the front panel to exit.



#### 6-Channel Audio Settings Adjustable Range Item 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 47 for more details.

Audio Adjustment from Remote

Press the **SEL** button,

Press the ▲ ▼ 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 on the screen.

INFO/PIC

Press INFO button for 1 second to display DVD disc information.

**RGB BRIGHTNESS** 

Press and hold INFO for 2 seconds to change TFT LCD BRIGHTNESS:

Press ANGLE ▲ to increase, ANGLE ▼ to decrease, or use VOLUME rotary to adjust the level up or down. (0 minimum/20 maximum) 10 is default.

**CVBS Screen Controls** 

While in AUX-IN or CAMERA mode:

Press and hold **INFO** for 2 seconds to access **PICTURE MENU**, press **INFO** briefly again to step to next selection:

SHARPNESS CONTRAST COLOR BRIGHTNESS TINT

Note: Adjustments to SHARPNESS, CONTRAST, COLOR, BRIGHTNESS & TINT are only possible while in either AUX-IN or CAMERA CVBS mode.



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

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

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

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

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



**BAND** | Press **BAND** to increment from FM1, FM2, FM3, AM ⇒ FM1.

AS/PS

(Auto Store /Preset Scan)

Press AS/PS momentarily to start station PRESET SCAN function. The unit will now scan your program presets for 10 seconds for each preset in that band. Press AS/PS again to stop scanning. Press AS/PS for 2 seconds to start AUTO STORE station preset function in current BAND.

DISP Press the DISP button to display various information on the secondary LCD

screen when the monitor is closed.

**OPEN** Press **OPEN** to open or close the monitor. The unit will emit a confirmation

beep when opening and closing. Be careful not to not touch or obstruct the monitor movement during the open/close sequence, or permanent damage

could occur.

**EJECT** Press once for **DISC** ejection.

ROTARY Press to access MAIN menu, rotate clockwise/counter-clockwise to select

desired item and press once to ENTER.

**MODE** | Press once to incrementally select desired source.

**TRACK/SEEK UP** Selects the next chapter/track/radio station.

**TRACK/SEEK DOWN** | Selects the previous chapter/track/radio station.

**STOP** | Stop playback of **DVD/CD/MP3**.

**PLAY/PAUSE** | Press once for **PAUSE**, press again for **PLAY**.

FAST FORWARD/TUNE UP | Fast forwards the chapter/track or selects the next radio frequency.

**FAST REVERSE/TUNE DOWN** Fast reverses the chapter/track or selects the previous frequency.

MUTE | Press once to MUTE audio, press again to return audio, an icon indicator will

flash on the TFT monitor.

**POWER ON/OFF** | Press **POWER** momentarily to turn the unit on.

Press and hold POWER for more than 2 seconds to turn the unit off.

Note: EJECT will still function even if POWER is off.

**VOLUME** | Rotate **VOLUME** rotary knob  $\circlearrowleft$  or  $\circlearrowright$  for desired **VOLUME** level, press once to

access the AUDIO SETUP MENU.

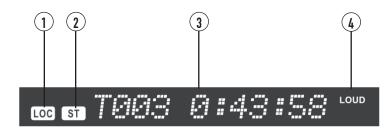
PROGRAMMABLE TURN-ON | Turn VOLUME rotary to desired listening level, press and hold VOLUME

**VOLUME** rotary knob for 3 seconds to program currently selected volume level.





#### Secondary LCD Information



NOTE: Secondary LCD only functions when TFT monitor is closed.

1) LOC LOCAL indicator, icon will be off when DISTANCE (DX) is selected

2) ST | STEREO radio station indicator

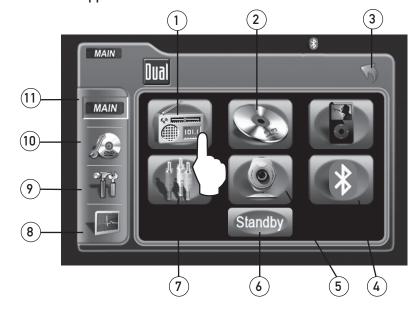
3) TIME Displays TRACK time, TUNING frequency, MP3 ID3 info, & CLOCK, etc.

4) LOUD LOUDNESS selection indicator

#### Main Menu Access

There are three methods to access the MAIN menu:

- Press the ENTER button on the right ROTARY knob.
- Press the MENU button on the remote control.
- Touch the upper left corner of the touch screen.



#### **Touch Access Buttons**

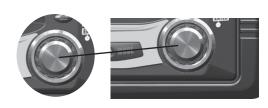
- 1) Touch to access AM/FM TUNER mode.
- 2) Touch to access CD/DVD mode, CD/DVD must be inserted.
- 3) Touch to **RETURN** to previous screen.
- 4) Touch to access **BLUETOOTH** mode, (**BLUETOOTH** must be activated first.) Refer to page 61 for more details.
- 5) Touch to access **CAMERA** mode, if optional camera isn't connected then "No Signal Detected" will be displayed.
- 6) Touch to STANDBY screen, touch screen again or any button to resume display.

  Note: VOLUME level can be controlled in STANDBY mode.
- 7) Touch to access AUXILIARY A/V INPUT mode.
- 8) Touch to access **SCREEN SETUP** menu.
- 9) Touch to access **GENERAL SETUP** menu.
- 10) Touch to access CD/DVD SETUP menu, CD/DVD must be inserted to function
- 11) 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.
- Function will be outlined in yellow.
- Press to confirm/ENTER.





### **GENERAL Setup - Menu**

#### General Setup Menu



- Press the GENERAL button 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.

Note: Default anti-theft password is 0000

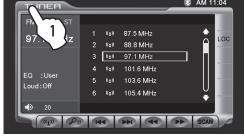
**GENERAL Setup Menu matrix** 

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	
	Auto	Auto	System will auto detect NTSC or PAL	
Video Format		NTSC	For NTSC compatibility	
		PAL	For PAL compatibility	
	Off	On	TFT panel will automatically open when IGN is turned on	
TFT Auto Open		Off	TFT panel will not auto open when IGN is turned on	
		Manual	TFT will only open/close when OPEN button is pressed	
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 than 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.	

Note: Not all GENERAL setup features are described in detail.

### **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.



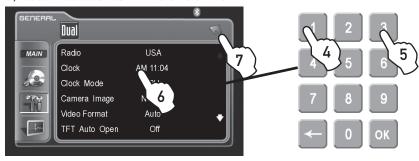
Step 2

2) Touch GENERAL icon.



Step 3

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



Steps 4-7

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

24Hr Clock Mode

For 24Hr format, select 24Hr from CLOCK MODE, then follow steps 1-7.

### XDVD8183N OPERATION



### **GENERAL Setup - Setting the Anti-theft code**

By 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 40 seconds.

Step 1 & 2



1) Touch top left corner of screen.



2) Touch GENERAL icon.

Step 3 & 4



3) Touch down arrow icon.



4) Touch ----.

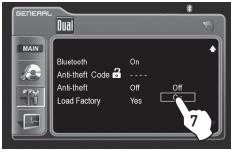
Step 5 & 6



5) Enter 0000, then press OK.



6) Touch Off.



Step 7 & 8 7) Touch On.



8) Touch ---- again.



Note: it is

system.

Step 9 & 10



- Enter your new 4-digit password, then press OK.
- 10) Touch RETURN to exit.

### SCREEN Setup - Menu

#### Screen Setup Menu



- Press the 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 right 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 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.

### **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.

0 - 20 is possible Default = 10

Step 5

5) Touch RETURN to exit.

### **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.



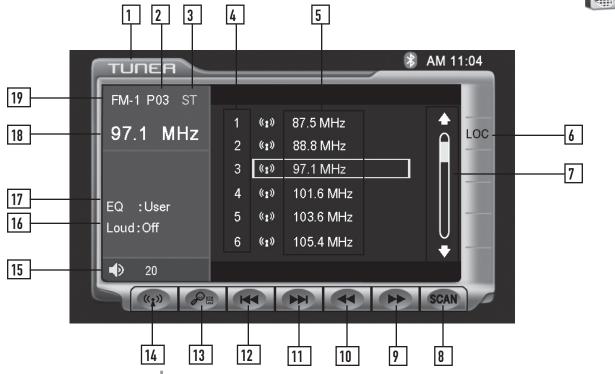
Note: For proper calibration you must touch each pointer for 2 seconds. If pointers are not touched properly, the calibration sequence will start over until the calibration is done correctly.

- 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 EXIT to return.



### AM/FM Tuner Operation - OSD Overview





**Tuner Mode** 

From the main menu, touch TUNER icon on the screen to select AM/FM Tuner mode.

- 1
- **Current Source Indicator**

Displays source currently playing.

- 2
- Preset Number Indicator

Shows what preset has been selected.

- 3
- Stereo Indicator

Shows that the frequency selected is received in stereo.

- 4
- Preset Number List Display

Shows the preset list by preset number.

5

Preset Station List Display

Shows the preset station list by frequency. Touch frequency to select a preset. Touch and hold frequency to store presets.

- | 6 |
- Local / DX Tuning Mode

Shows when local or distance tuning is on.

- | 7 |
- Preset Display Scroll Bar

Allows scrolling of preset list.

8

**Tuner Scan** 

Touching this icon will scan through all available stations in the current band.



### AM/ FM Tuner Operation - OSD Overview

9	Tune Frequency - Up Touching this icon will tune the radio to a higher frequency by one frequency step. Touch and hold to continuously tune up.
10	Tune Frequency - Down Touching this icon will tune the radio to a lower frequency by one frequency step. Touch and hold to continuously tune down.
11	Seek Next Station - Up Touching this icon will tune to the next strong station at a higher frequency.
12	Seek Next Station - Down Touching this icon will tune to the next strong station at a lower frequency.
13	Preset Scan/Auto Station Tune Touching this icon will scan through all presets in the current band. (This function can also performed by pressing the AS/PS button.) 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 AS/PS button.)
14	Band 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 the BAND button.)
15	Volume Indicator Indicates current volume level, controlled by rotary encoder.
16	Loudness Indicator Touch screen here to enter Audio Setup Menu.
17	EQ Indicator Touch screen here to enter Audio Setup Menu.
18	Current Station Indicator Indicates current frequency.
19	Band Indicator Shows which band the radio is tuned to, FM-1, FM-2, FM-3, or AM.

### AM/FM Tuner Operation



#### AM/FM Tuner Mode

From the main menu, touch TUNER icon to select AM/FM Tuner mode.

From the remote control or the front panel:

Press MODE until TUNER is displayed on the screen.

Band

Touch  $\binom{(i)}{2}$  on the screen repeatedly until the desired band is displayed, FM-1, FM-2, FM-3, or AM.

Press the BAND button to switch between bands. FM-1, FM-2, FM-3, AM.

From the remote control:

Press the **BAND** button.

#### Manual Tuning

Touch ▶ on the screen to tune to the next higher 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.

#### **Seek Tuning**

Touch ▶ on screen to tune to the next higher strong station.

Touch 

on screen to tune to the next lower strong station.

Press M on front panel to tune to the next higher strong station.

Press **⋈** on front panel to tune to the next lower strong station.

From the remote control:

Press ▶ or be to tune to the next higher strong station.

Press 

or 

to tune to the next lower strong station.

#### **Storing Presets**

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.

#### **Auto Store Presets**

Touch and hold the emicon to automatically program the 12 strongest stations available into the presets in the current band.

Press and hold the AS/PS button for more than 2 seconds.

#### Preset Scan

Touching the  $\mathscr{P}^{\scriptscriptstyle \square}$  button will scan through all tunable presets in the current band and play them for 10 seconds each.

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



### **AM/ FM Tuner Operation**

#### **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 turning the right rotary clockwise or counter-clockwise, and pressing in 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  $\triangle$  or  $\nabla$  to scroll through the presets. When the correct preset is highlighted press **OK**.

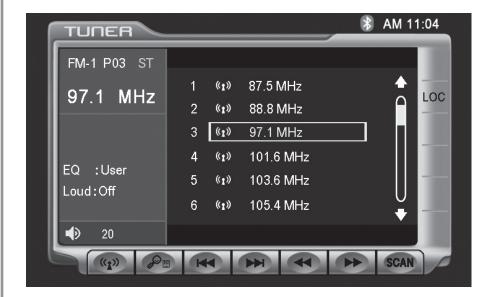
Use the numeric keypad to enter the desired preset number.

**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.





### **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**



#### SAFFTY WARNING



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

ENGAGE EMERGENCY BRAKE
TO ENJOY VIDEO

- 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.
- Audio can be heard while the monitor is closed.
- 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 AV1 audio can be heard while the vehicle is in motion without engaging the parking brake.

#### Front TFT Video Initialization

Follow these two initialization procedures carefully to allow video playback on XDVD8183N front panel 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 approximately 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 approximately. 6 seconds. The transition time must be less than 2 seconds between depress and release. This procedure will have to repeated if the IGN is turned off.

### **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 XDVD8183N 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 XDVD8183N 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
VIDEO VIDEO	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
DIGITAL VIDEO	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
DIGITAL AUDID	Single side single layer	74 minutes

Symbol	Moaning
Symbol	Meaning
<b>(8)</b>	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
32	Number of subtitle languages available on the disc (maximum of 32).
9	Number of angles provided (maximum of 9).
16:9 LB	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. 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

#### Notes:

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8183N 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

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 49.

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.

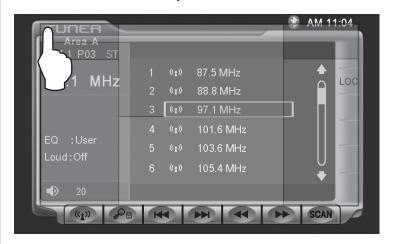
## **DVD Operation - Touch Screen Controls**



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





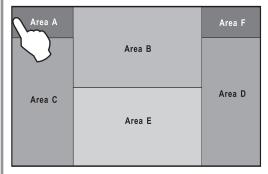
## **DVD Operation - Touch Screen Controls**

## Using the hidden Touch Screen Controls

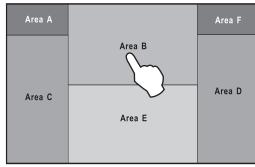
- A Displays **MAIN** menu
- B Displays **DVD** disc information
- C Selects PREVIOUS chapter
- D Select **NEXT** chapter
- E Displays the full **DVD** transport controls
- F GOTO search menu

#### Note:

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



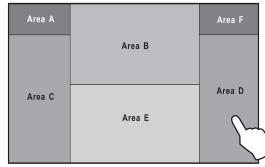
AREA A
Access MAIN Menu



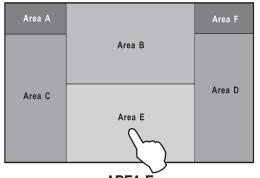
AREA B
Displays Disc Information



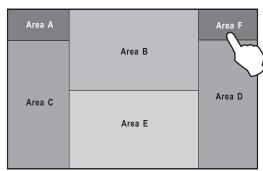
AREA C
Selects PREVIOUS Track



AREA D
Selects NEXT Track



AREA E
Displays DVD Transport Controls

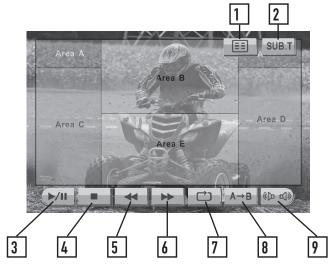


AREA F DVD Search

## **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 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 ►/II 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 circon 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  $A \rightarrow B$  icon once to select a start point. Touch it a second time to select and end point. The  $A \rightarrow B$  icon will illuminate and the DVD will then loop from the start point to the end point until touched a third time.

9

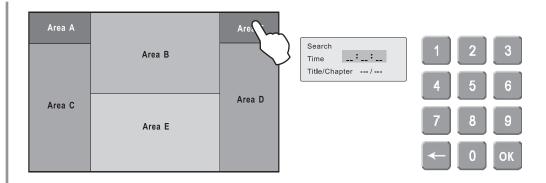
Audio Mode

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 XDVD8183N 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**



### Playback Control

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.

From the front panel:

Press to fast forward.

Press 4 to fast reverse.

From the remote control:

Press > to fast forward.

Press 

to fast reverse.

### Repeat Mode

Touch the Repeat button to repeat either a chapter or title. The first touch activates **Repeat Chapter** mode and a second touch activates **Repeat Title** 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 Repeat Chapter, Repeat Title and Repeat Off modes.

Note: The Repeat Mode can only be changed while the DVD is playing.

### Repeat A->B

Touch the  $A \rightarrow B$  icon once to select a start point. Touch it a second time to select and end point. The  $A \rightarrow B$  icon will illuminate and the DVD will then loop from the start point to the end point until touched a third time.

From the remote control:

Press  $A \rightarrow B$  to select a start point and stop point. Press a third time to deactivate.

### Play/Pause

Touching Play/Pause will temporarily stop playback of the DVD. Touching it again will resume playback,

Press the PLAY/PAUSE button to pause or resume the DVD.

From the remote control:

Press **OK** to temporarily stop and resume playback.

#### Stop

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.

From the remote control:

Press ■ to stop playback of the current chapter.



## **DVD Operation**

### Sub-Titles

Touch the **SUB.T** button to activate **Sub-Title** 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.

From the remote control:

Press the SUB-T button to control Sub-Title mode.

#### Notes:

- Not all DVDs have sub-titles and when they do, some will only have 1 language.
   Therefore this function may be disabled or limited.
- The Sub-Title Mode can only be changed while the DVD is playing.

### **Audio Mode**

Touch the **Audio Mode** icon to change the audio stream. Each touch will cycle the language.

From the remote control:

Press the AUDIO button to control the Audio Mode.

#### Notes

- Not all DVDs have multiple languages, therefore this function may be disabled or limited.
- The Audio Mode can only be changed while the DVD is playing.

#### **DVD Disc Information**

Touch Area B to bring up the **DVD Disc Information**, which includes:

Current/Total Titles and Chapters, elapsed time for current title, EQ Mode and Loudness setting and current time.

Press the PIC button to bring up the DVD Disc Information.

From the remote control:

Press the INFO button to bring up the DVD Disc Information.

#### 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 1 to 2 to 3 to 4 and back to normal.

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

#### **DVD Title Menu**

Touch the Title Menu icon to return to the DVD's main menu.

From the remote control:

Press TITLE to return to the DVD's main menu.

Press **ROOT** to move up one level on the DVD's menus. (For example, when viewing bonus materials, the **ROOT** button will return to the bonus menu instead of the main menu.) Pressing **ROOT** again will usually return to the current chapter.

Note: On some DVD's the TITLE and ROOT buttons may be reversed.

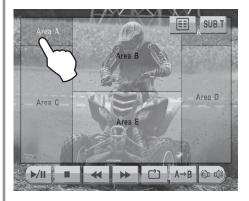
## **DVD Setup Menu - Language**

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.

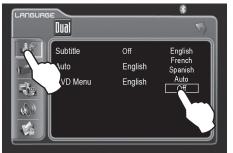




Press the LANGUAGE icon to select LANGUAGE setup page.

**Disc Subtitle** 

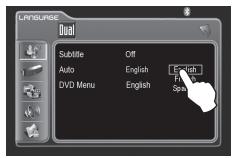
Press to select desired disc subtitle language.



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** 

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

#### Note:

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





Press AUDIO icon to select from the following menus:

**Pink Noise** 

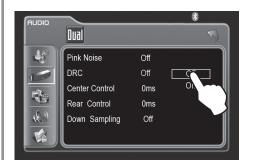
Press to activate pink noise generator for the desired channel. The pink noise generator is used to set the relative speaker levels for multi-channel playback.



Downmix (2-channel) Settings
Off = DEFAULT
Left
Right

**Dynamic Range Control** 

Select On to activate dynamic range control.

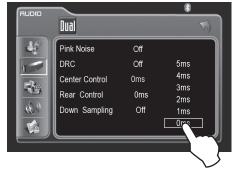


 $\begin{array}{l} \text{Off} = \text{DEFAULT} \\ \text{On} \end{array}$ 

## **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.



 $\begin{array}{l} Off = DEFAULT \\ On \end{array}$ 

## **DVD Setup Menu - Video**

Video Setup Menu

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.

#### Note:

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

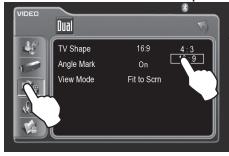




Press the VIDEO icon to select from the following menus:

**TV Shape** 

Press to select desired TV shape.





NORMAL - 4:3

Angle Mark

Select On to activate angle mark.

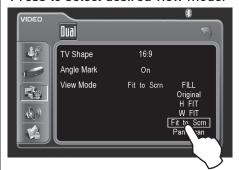


On = DEFAULT Off



**View Mode** 

Press to select desired view mode.



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

## **DVD Setup Menu - Speaker**

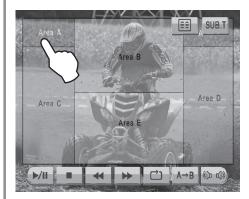
Speaker Setup Menu

Sheaker Seruh Meur

Note:

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

With the monitor open in DVD mode, press the 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:

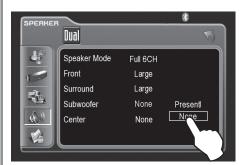
A DVD disc must be inserted to access these functions and features.



Large = DEFAULT Small None

\*Subwoofer Speaker

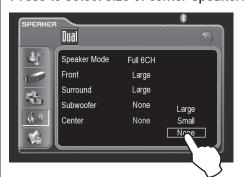
Select Present if a subwoofer is included in your system.



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 - Rating**

Rating Setup Menu

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

#### Note:

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

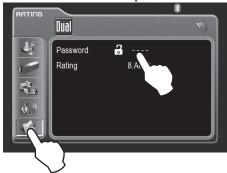




Press RATING icon to select from the following menus:

**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 loose your PARENTAL LOCK password, enter 9991.



## **CD Operation - OSD Overview**



**CD Mode** From the main menu, touch the DISC icon on the screen to select CD mode. **Current Source Indicator** 1 Displays Source Currently Playing. 2 Track Number Indicator Displays current track number and total number of tracks on the disc. 3 Disc Title Indicator Displays current disc title when available. 4 Track Title List Displays up to 6 tracks on the disc in order, with track title, when available. 5 Repeat Touch the ci icon to repeat current track. This icon will remain highlighted until touched to disable. 6 Shuffle 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 <b>OK</b> 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 ▶/ <b>II</b> icon to temporarily stop or resume playback.
16	Volume Indicator Indicates current volume level, controlled by rotary encoder.
17	Loudness Indicator Touch screen here to enter Audio Setup Menu.
18	EQ Indicator Touch screen here to enter Audio Setup Menu.
19	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 it 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**



### Page Up/Down

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.

From the remote control:

Press to display the next page.

Press 

to display the previous page.

#### **Track Select**

Press button to skip to the next track.

Press M button to skip to the previous track.

From the remote control:

Press to skip to the next track.

Press K to skip to the previous track.

Note: Press ★ once to return to the beginning of the current track. Press a second time to skip to the previous track.

## **Direct Select**

To select a desired track from the track title list, touch any track on the list.

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

Using the Rapid Dial rotary encoder:

- Select desired track by rotating the right rotary encoder clockwise or counter-clockwise.
- Press to confirm/ENTER.

From the remote control:

Press  $\triangle$  or  $\nabla$  to scroll through the tracks. When the correct track is highlighted press **OK**.

### **Direct Track Entry**

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

From the remote control:

Use the numeric keypad to enter the desired track number.

### **Play Control**

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.

Press to fast forward.

Press to fast reverse.

From the remote control:

Press to fast forward.

Press to fast reverse.



## **CD Operation**

#### Shuffle Mode

Touch the Shuffle button to shuffle all of the tracks on the CD. 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**.

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

### Repeat Mode

Touch the Repeat button to repeat a track. When **Repeat Mode** is active, the Repeat button will be illuminated, and touching it again will disable **Repeat Mode**.

From the remote control:

Press 🗅 to select Repeat. Press it a second time to disable Repeat.

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

#### Scan Mode

Touch **SCAN** 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 **Scan Mode** is active. When the button is illuminated, touching it a second time will disable **Scan Mode**.

From the remote control:

Press TITLE to activate and disable Scan Mode.

#### Play/Pause

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

Press **PLAY/PAUSE** to pause or resume the song.

From the remote control:

Press **OK** to temporarily stop and resume playback.

### Stop

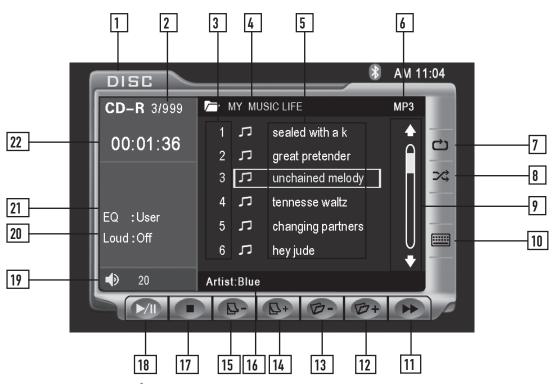
Touch Stop to stop playback of the current track. Pressing Play at this point will resume playback. If Stop is touched a second time, then playback stops completely and will restart from the beginning of the CD.

From the remote control:

Press ■ to stop playback of the current song.

## MP3/WMA Operation - OSD Overview





MP3/WMA Mode

From the main menu, touch the **DISC** icon on the screen 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.

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 <b>OK</b> 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 folder.
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 ▶/ <b>II</b> icon to temporarily stop or resume playback.
19	Volume Indicator Indicates current volume level, controlled by rotary encoder.
20	Loudness Indicator  Touch screen here to enter the Audio Setup Menu.
21	EQ indicator  Touch screen here to enter the Audio Setup Menu.
22	Elapsed Time Indicator Shows the elapsed time of the current song.

## MP3/WMA Operation



### Page Up/Down

From the remote control:

Press to display the next page.

Press 

to display the previous page.

**Note**: 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.

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.

### Song Select

Press button to skip to the next song.

Press H button to skip to the previous song.

From the remote control:

Press to skip to the next song.

Press **K** to skip to the previous song.

**Note**: Press once to return to the beginning of the current song. Press a second time to skip to the previous song.

### **Direct Select**

To select a desired song from the filename list, touch any of the displayed filenames from the list.

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

Using the Rapid Dial rotary encoder:

- Select desired track by rotating the right rotary encoder clockwise or counterclockwise.
- Press to confirm/ENTER.

From the remote control:

Press  $\triangle$  or  $\bigvee$  to scroll through the songs. When the correct song is highlighted press **OK**.

### **Direct Song Entry**

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

From the remote control:

Use the numeric keypad to enter the desired song number.



## 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.

Press on front panel to fast forward.

Press ◀ on front panel to fast reverse.

From the remote control:

Press to fast forward.

**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.

## 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

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 PR0 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**

- IS09660 level 1
- IS09660 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

#### IS09660 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** 

 $32kHz \sim 48kHz$ 

Transfer Bit rates

MP3

 $40kbps \, \sim \, 320kbps \, \, constant$ 

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

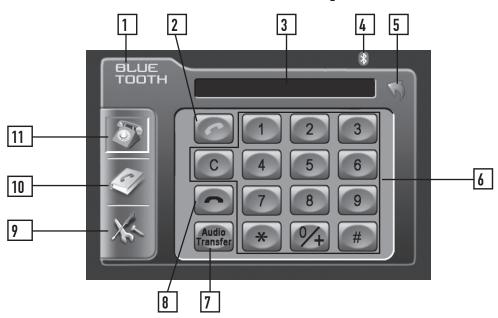
44.1kHz or higher sampling frequency

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

44kHz or higher sampling frequency

## 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.

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.

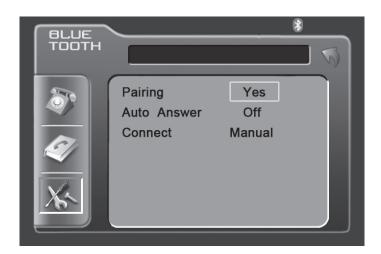
10 Phone book Icon

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 63 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 pho		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 63 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)



#### **Pairing**

Before you can use a mobile device with this head unit, it must be authenticated. This is also referred to as "pairing" a device.

**Note:** 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.

#### Step 1

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.

#### Step 2

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 G2". After the pairing process has completed, the Bluetooth icon will turn solid blue.

#### Notes

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.

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.

This unit can remember the last 4 paired mobile devices. It is only possible to connect to one Bluetooth mobile device at a time.

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).

The **MUTE** function can not be used during Bluetooth operation. If **MUTE** is active when a call is received, the audio will automatically be transferred to the 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.

#### Connect

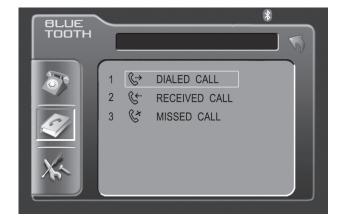
The head unit will automatically connect to a previously connected mobile device when the Connect feature is set to Auto. If the Connect feature is set to Manual, the head unit will not automatically connect to any mobile device. Set the Connect feature to Manual when you do not want to connect to any Bluetooth mobile device.





## 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.

# **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.

#### 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.
- 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

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**

General							
Problem	Cause	Action					
Unit will not turn on (no power)	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					
Unit has power	Speaker wires not connected	Check connections at speakers					
(but no sound)	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 Parking brake not applied	Check connections at parking brake Apply parking brake as described on page 33					
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					
Bad Disc appears on display	Focus error or disc is in upside down	Press eject or RESET					
Incorrect Region Code 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 to resume the monitor open/close sequence.					



# **Troubleshooting**

Bluetooth								
Problem	Cause	Action						
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 on page 69						
Mobile device will not	Bluetooth function is not active on the head unit	Activate Bluetooth function as described on page 21						
connect to the head unit	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						
ERROR! Connect Timeout appears in the display	The time limit for the pairing mobile device has been reached	Pair the mobile device within 120 seconds						
Pairing Fail appears in the display	The attempted pairing process has failed	Retry the pairing process again						
Mobile device will not connect to the head unit automatically	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 63						
Ring tone can not be heard through the	Ring tone volume is turned down	Increase the volume of the ring tone using the rotary encoder during the ringing process						
speakers	MUTE function is activated on the head unit	Press MUTE to cancel the mute function and resume audio						
Echo or noise is heard	Possible road noise or interior interference	Close all open windows and turn off any fans or A/C						
during a phone call	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						
Call is answered automatically	Auto Answer function is set to On	Set Auto Answer function to Off as described on page 63						
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						

## **Specifications**

**DVD Player** Frequency response: 10Hz-20kHz

Channel separation @ 1kHz: >65dB

D/A converter: 24 Bit

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

Monitor | Panel size: 7" (177.8 mm) diagonal measurement

View angle (up/down/left/right): 30/60/60/60

Resolution: **480 W x 234 H**Brightness (cd/m<sup>2</sup>): **350**Contrast ratio: **300:1**Elements: **336.960** 

General Operating voltage: 11-16 VDC, negative ground

Speaker output impedance: 4~8 ohms

Line output voltage: 2 Volts

Line output impedance: 200 ohms Chassis dimensions: 7" x 7" x 2"

(178 x 178 x 51 mm)

Design and specifications subject to change without notice.



CEA-2006 Power Standard Specifications (reference: 14.4VDC +/- 0.2V,  $20Hz\sim20kHz$ )

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



## **Notes**

# Notes



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