XDVDN9131

INSTALLATION/OWNER'S MANUAL

DVD Multimedia Receiver with GPS Navigation and 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.

Copyright Notes

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Table of Contents

⚠ 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 XDVDN9131 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

To prevent damage or injury:

• Make sure to ground the unit securely to the vehicle chassis ground.
• Do not remove the top or bottom covers of the unit.
• Do not install the unit in a spot exposed to direct sunlight or excessive heat or the possibility of water splashing.
• Do not subject the unit to excessive shock.
• 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.
• To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
• Use only the provided hardware and wire harness.
• You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
• If you experience problems during installation, consult your nearest DUAL dealer.
• If the unit malfunctions, reset the unit as described on page 11 first. If the problem still persists, consult your nearest DUAL dealer or call tech assistance @ 1-866-382-5476.
• 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.
• 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.
• 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.
• 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.

FCC Compliance

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

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
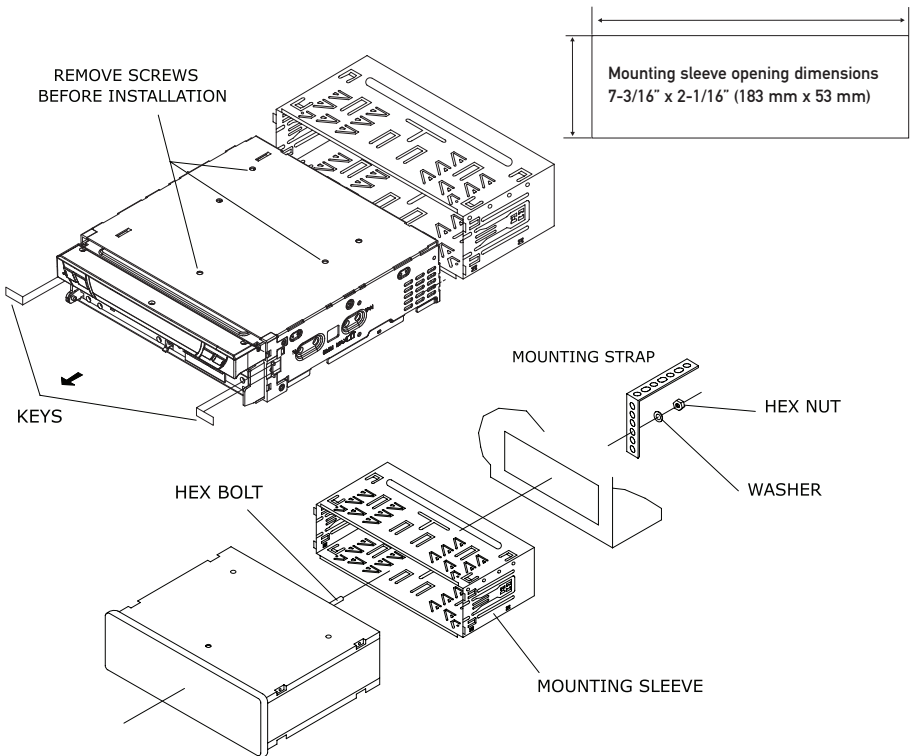• Consult the dealer or an experienced radio/TV technician for help.

Preparation

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
• Remove 3 transit screws located on top of the unit.
• Insert the supplied keys into the slots as shown, and 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).
• Reconnect negative battery terminal, attach front panel as described on page 11 and test for correct operation.
• Snap trim ring into place making sure the notched area is on the bottom.
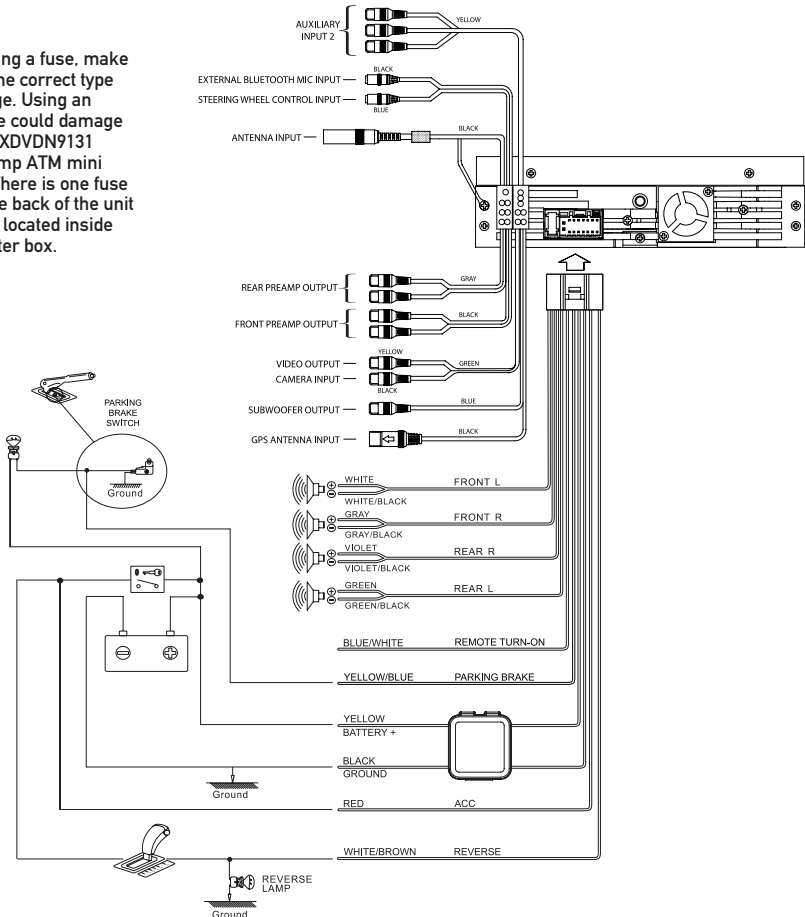• Slide unit into mounting sleeve to secure.

REMOVE SCREWS
BEFORE INSTALLATION

Mounting sleeve opening dimensions
7-3/16" x 2-1/16" (183 mm x 53 mm)

KEYS

MOUNTING STRAP

HEX NUT

WASHER

HEX BOLT

MOUNTING SLEEVE

TYPICAL FRONT-LOAD DIN MOUNTING METHOD

5

Dual
audio·video

Wiring Diagram – Inputs/Outputs

Note:
When replacing a fuse, make sure to use the correct type and amperage. Using an incorrect fuse could damage the unit. The XDVDN9131 uses (2) 10 amp ATM mini style fuses. There is one fuse located on the back of the unit and one fuse located inside the in-line filter box.

AUXILIARY INPUT 2
YELLOW

EXTERNAL BLUETOOTH MIC INPUT
BLACK
STEERING WHEEL CONTROL INPUT
BLUE

ANTENNA INPUT
BLACK

REAR PREAMP OUTPUT
GRAY

FRONT PREAMP OUTPUT
BLACK

VIDEO OUTPUT
YELLOW
CAMERA INPUT
GREEN
BLACK

SUBWOOFER OUTPUT
BLUE

GPS ANTENNA INPUT
BLACK

PARKING BRAKE SWITCH
Ground

WHITE — FRONT L
WHITE/BLACK
GRAY — FRONT R
GRAY/BLACK
VIOLET — REAR R
VIOLET/BLACK
GREEN — REAR L
GREEN/BLACK

BLUE/WHITE — REMOTE TURN-ON

YELLOW/BLUE — PARKING BRAKE

YELLOW — BATTERY +

BLACK — GROUND
Ground

RED — ACC

WHITE/BROWN — REVERSE

REVERSE LAMP
Ground

Wiring Notes:

Subwoofer output
The **SUBWOOFER** preamp audio output (Blue RCA) is active in all audio modes.

Rear view camera
A rear view camera (not included) can be used with the **CAMERA** input. Refer to page 64 for details.

Steering wheel controls (optional)
The steering wheel interface input allows connection to the Pacific Accessory Corporation **SWI-PS** interface module (sold separately). Visit www.pac-audio.com for details. *Note the SWI input 3.5mm connector color is blue.
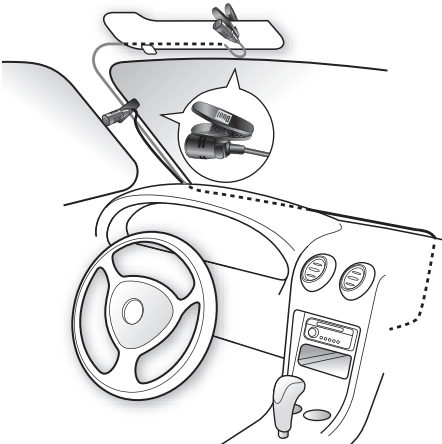
6

Installation – GPS Antenna & Microphone

- Determine a suitable location for mounting the GPS antenna. For optimum reception, the antenna should be mounted in the center of the vehicle roof with a minimum of 6″ from any window. The antenna can also be mounted to the rear trunk lid at least 4″ from the rear window.
- Do not install the antenna in a location where it may obstruct the field of view to the skyline such as on the front dashboard or rear deck tray.
- Clean the mounting location thoroughly before attaching the antenna. The antenna uses a powerful magnet and requires no adhesive. Do not slide the antenna during positioning as damage to the painted surface can occur.
- Use the included steel mounting plate with 2-sided tape when attaching the antenna to non-metallic surfaces.
- Once the antenna is mounted, carefully plan the cable route to the main unit. Be careful not to pinch or twist the antenna cable. Use a grommet when running wires through any metal openings.
- Connect the antenna to the locking antenna connector on the back of the unit.

GPS Signal
When the system is turned on for the first time it can take several minutes to acquire a GPS signal. GPS signal acquisition times will be typically less than a minute when the unit is turned on again.
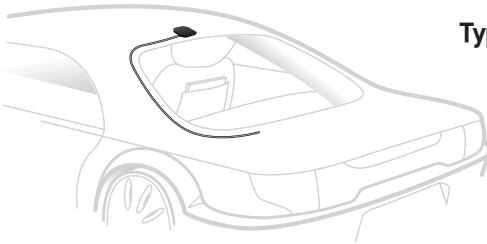
Typical GPS Antenna Mounting

Note: Installation of the external microphone is optional but recommended for the highest sound quality of hands-free calls.

- Determine a suitable location for mounting the external microphone. Suggested placement includes the sun visor or the A-pillar of the vehicle. Choose the best location for your vehicle.
- The microphone includes a removable mounting clip and windscreen.
- Once the microphone is mounted, carefully plan the cable route to the main unit. Be careful not to pinch or twist the antenna cable.
- Connect the microphone to the 3.5mm external Bluetooth microphone input on the back of the unit. *Note the 3.5mm connector color is black.
- After the installation is complete, follow the instructions on page 66 for selecting the "external" microphone option.

**Typical Microphone Mounting**

7

# IR Remote Preparation

Remove battery insulation tape

PULL
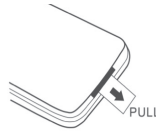
Notes:
- Remove the battery if the remote will not be used for a month or longer
- Remove and dispose of battery properly
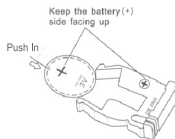- Do not store battery with metallic objects or materials

To insert or replace the battery:
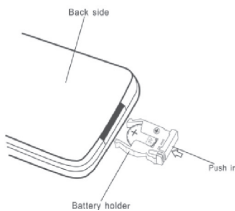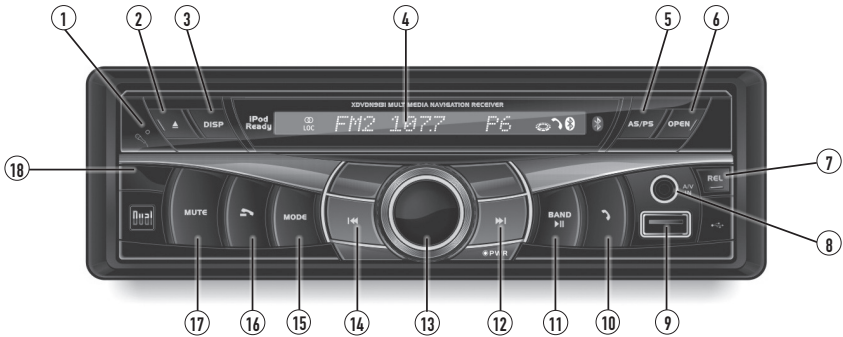**Remove the battery holder**

Back side

Pull out

Battery holder   Push on side
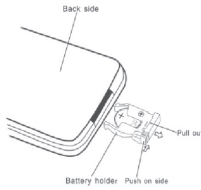
Remove the battery from the
battery holder

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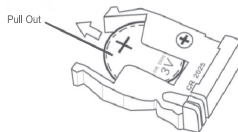
Install the new battery
Make sure to keep the (+) side up

Keep the battery (+) side facing up

Push In

Insert the battery holder

Back side

Push in

Battery holder

8

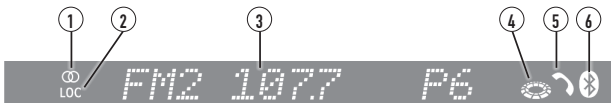# Control Locations - Monitor Closed

①	Bluetooth Microphone	⑩	Talk
②	Eject	⑪	Band/Play/Pause
③	Display/Info	⑫	Channel/Chapter/Track Up/Fast Forward
④	Secondary LCD	⑬	Power/Volume/EQ
⑤	Auto Store/Preset Scan	⑭	Channel/Chapter/Track Down/Fast Reverse
⑥	Open/Close Monitor	⑮	Mode
⑦	Front Panel Release	⑯	End Call
⑧	3.5mm A/V Input	⑰	Mute/Loudness
⑨	USB Input	⑱	Infrared Sensor

Secondary LCD Information

① Stereo indicator
② Local indicator
③ Main information display
④ Disc-in indicator
⑤ Bluetooth call indicator
⑥ Bluetooth connection indicator

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

9

Control Functions - Monitor Closed

Bluetooth Microphone	Built-in microphone for Bluetooth hands-free calls.
Eject	Press ⏏ once to eject disc.
Display	When the monitor is closed, press **DISP** to toggle display between information available for the current mode such as clock, frequency, track, song or chapter information.
Secondary LCD	Additional LCD for system information while monitor is closed.
AS/PS **(Auto Store/Preset Scan)**	Press **AS/PS** momentarily to start station Preset Scan function. Press **AS/PS** for 2 seconds to start Auto Store station preset function in current band.
Open Monitor	Press **OPEN** to open or close the monitor. Be careful not to not touch or obstruct the monitor movement during the open/close sequence, or permanent damage could occur.
Release	Press **REL** to release the front panel for disc access or front panel removal.
3.5mm A/V Input	Connect external devices or the included cable for an iPod device to this 3.5mm auxiliary audio/video input.
USB Input	Insert USB flash drive to play MP3, WMA or JPEG files. Connect included cable for an iPod device to control and charge an iPod device.
Talk Button	Press to answer an incoming call or to place an outgoing call.
Band/Play/Pause	In Disc, operation of iPod, USB or SD mode, press once for **PAUSE**, and "Pause" will appear in the display. Press again to resume **PLAY**. Press **BAND** to select FM1, FM2, ⇨ AM.
Channel/Chapter/Track Up **Fast Forward**	Press to select the next channel/chapter/track for playback. Press and hold to manual tune up or fast forward.
Power/Volume/EQ	Momentarily press the volume knob or any other button (except **EJECT**) to turn the unit on. Press for more than 3 seconds to turn the unit off. Turn the volume knob to adjust the volume level lower or higher (0-46). The current volume level will be displayed on the secondary LCD when the monitor is closed. Turning the knob while the volume is muted will cancel the mute function. Press the volume knob momentarily to select between Flat, Classic, Pop, Rock or User EQ presets.
Navigation Voice Announcement **Volume Level**	In Navigation mode, adjust voice announcement volume level during the voice announcement. To adjust voice announcement volume level at any other time, press the volume knob first, then adjust the volume level.
Channel/Chapter/Track Down **Fast Reverse**	Press to select the previous channel/chapter/track for playback. Press and hold to manual tune down or fast reverse.

Control Functions - Monitor Closed

Mode	Press **MODE** to select between Tuner, Disc (which includes DVD and CD playback), operation of iPod, USB, Bluetooth, SD, Auxiliary 1 and Auxiliary 2 inputs. Each time the **MODE** button is pressed the next mode is chosen. Modes of operation are indicated on the OSD or the secondary LCD. Optional iPod device, USB flash drive, SD card or Bluetooth device must be connected/inserted to appear in the mode selection string.
End Button	Press to end a call in progress or reject an incoming call.
Mute	Press **MUTE** to silence audio output. "Mute" will flash in the display. Press **MUTE** again to restore audio at previous volume level. Press and hold **MUTE** to toggle the Loudness function On or Off.
Infrared Sensor	Point the remote control towards the infrared sensor to control various functions of the unit. Refer to page 13 for more information.
Caution	• Upon installation, do not attempt to move the monitor by hand. Use the ∨ or ∧ buttons, the **OPEN** button on the front panel or the remote control. • The unit will stop if it encounters any obstacles during the open/close sequence. If this occurs, remove the obstacle and press **OPEN** again to resume the monitor open/close sequence.

Reset — Disc-in Indicator

|	
Front Panel Removal/Attachment	Press **REL** to fold down the front panel. In the down position, gently press the right side of the front panel to the left, then pull away from the bottom right to remove. To re-install the front panel, insert the right side of the bottom of the front panel first, then snap the left side into place and fold up. It is easiest to reattach the front panel whe it is in the open position.
Reset	To resolve abnormal operation or if the unit is inoperable, press the **RESET** button located behind the front panel directly under the disc slot. The unit will reset the main processor to the default settings. **Note:** Use the tip of a pen to access the reset button. To restore the factory default software settings, refer to page 19.
Disc-in Indicator	The disc-in indicator will illuminate blue when a disc is loaded.

11

Control Locations and Functions – Monitor Open

① Close Monitor

② SD Card Input

③ Screen Angle Up

④ Navigation

⑤ Screen Angle Down

Close Monitor	Press **CLOSE** to open or close the monitor. Be careful not to not touch or obstruct the monitor movement during the open/close sequence, or permanent damage could occur.
SD Card Input	Insert SD card to play audio files.
Screen Angle Up	Press momentarily to adjust the angle of the screen upwards. Press and hold to slide the monitor inwards.
Navigation	Press **NAVI** to toggle the display between the current mode and the navigation map.
Screen Angle Down	Press to adjust the angle of the screen downwards. Press and hold to slide the monitor outwards.
Monitor Notes	• The angle can also be manually selected via the screen setup menu. • 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. When "TFT Auto Open" is set to "On" in the Main Setup menu, the monitor will return to its last position automatically the next time the unit is turned on.

Control Locations – Remote
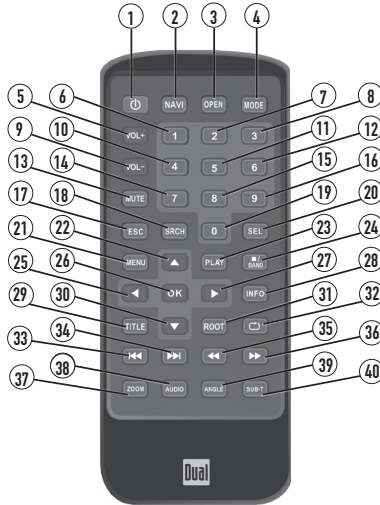
|		
① Power	⑯ Key #9	㉛ Root
② Navigation	⑰ Escape	�32 Repeat
③ Open/Close	⑱ Search	�33 Chapter/Track/Seek Tune Down
④ Mode	⑲ Key #0/DVD Setup	�34 Chapter/Track/Seek Tune Up
⑤ Volume Up	⑳ Audio Select	�35 Fast Reverse/Manual Tune Down
⑥ Key #1	㉑ Menu	�36 Fast Forward/Manual Tune Up
⑦ Key #2	㉒ 4-Way – Up	�37 Zoom
⑧ Key #3	㉓ Play	�38 Audio
⑨ Volume Down	㉔ Band/Stop	�39 Angle
⑩ Key #4	㉕ 4-Way – Left	�40 Sub-Title
⑪ Key #5	㉖ OK	
⑫ Key #6	㉗ 4-Way – Right	
⑬ Mute/Loudness	㉘ Info	
⑭ Key #7	㉙ Title Menu	
⑮ Key #8	㉚ 4-Way – Down	

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

13

Control Functions - Remote

Power	Press once to turn the unit on, press again to turn unit off.
Navigation	Press to select between navigation mode and current source.
Open	Press once to open monitor; press again to close the monitor.
Mode	Press once to incrementally select desired source.
Volume Up	Increase **VOLUME**.
Keys 0-9	Direct access for chapter/track/preset stations 1 ~ 9; keypad entry 0 ~ 9.
Volume Down	Decrease **VOLUME.**
Mute	Press once to **MUTE** audio; press again to return audio. Press and hold to select Loudness On/Off.
Escape	Exit current menu.
Search	Search function in Disc and operation of iPod modes.
Audio Select	Enter **AUDIO** Setup mode.
Menu	Enter the **MAIN** system menu.
4-Way-Up/Down/Left/Right	Navigating system and DVD menus.
Play	Press to pause/begin playback.
Band/Stop	Press to select desired **BAND** or to **STOP** while in disc mode.
OK	Press to confirm settings.
Info	Displays DVD information. Press and hold to access brightness menu.
Title Menu	Enters the title menu of the DVD.
Root Menu	Enters the main menu of the DVD.
Repeat	Repeats playback of current chapter/track or folder.
Chapter/Track/Seek Tune Down	Selects the previous chapter/track/station for playback.
Chapter/Track/Seek Tune Up	Selects the next chapter/track/station for playback.
Fast Reverse/Manual Tune Down	Fast reverses the Disc/USB/SD/content of iPod, manual tune down.
Fast Forward/Manual Tune Up	Fast forwards the Disc/USB/SD/content of iPod, manual tune up.
Zoom	Zooming in/out on an image.
Audio	Change the audio language (when available) for DVD playback.
Angle	Selects between different angles (when available) for a DVD scene.
Sub-Title	Language selection for subtitle (when available) for DVD playback.

14

General Operation

Power On/Off	Momentarily press the volume control (**PWR)** or any other button (except **EJECT**) to turn the unit on. Hold for 3 seconds to turn the unit off.
Mute	Press **MUTE** to silence the audio; ⁂ will appear in the OSD (On Screen Display). Press **MUTE** again to cancel.
Loudness	Press **LOUD** on the OSD to turn the Loudness on/off. Pressing and holding the **MUTE** button on the front panel or remote will also turn the Loudness on/off.
Mode	Press **MODE** to select between Tuner, Disc (which includes DVD and CD playback), operation of iPod, USB, Bluetooth, SD, Auxiliary 1 and Auxiliary 2 inputs. Modes of operation are indicated on the OSD On Screen Display. Optional iPod device, USB flash drive and SD card must be connected/inserted to appear in the mode selection string.
Optional Mode Selection	Press **MENU** at the top left corner of the screen to display the **OSD** main menu. Press Tuner, Disc, operation of iPod, USB, Navi, Bluetooth, SD, AV/1, AV/2 or Camera in the **MAIN** menu page to select the desired source.
Volume	Turn the rotary or use the volume ◄ or ► to adjust the volume level lower or higher (0-46). The current volume level will be displayed on the secondary LCD when the monitor is closed or on the LCD (to the right of the volume icon 🔊) when the monitor is open. Turning the rotary while the volume is muted will cancel the mute function.
Audio Setup (from OSD)	From Tuner, Disc (CD only), operation of iPod, USB, Bluetooth or SD mode, touch **EQ** on the OSD or press the rotary momentarily to enter the Audio Setup menu. Adjust audio parameters by pressing the desired level you wish to change. Operation will return back to previous mode after 15 seconds of inactivity or by pressing the **RETURN** arrow in the top right corner.
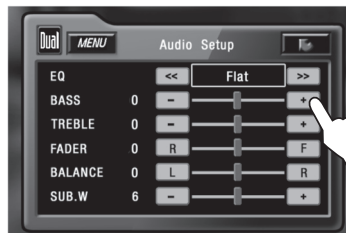
Audio Setup (from remote)	Press the **SEL** button. Press the ▲ or ▼ buttons on the remote to select an item to be adjusted. Press ◄ or ► to decrease (-) or increase (+) the current level. Press **RETURN** on the OSD or the **ESC** button on the remote control to exit the audio control menu.

Note: 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:On** is displayed in the OSD. |

15

General Operation

Info	Press **INFO** momentarily to display DVD disc information. **Press and hold to access brightness menu.**
Monitor Brightness	Press and hold **INFO** for 3 seconds to change monitor **Brightness.** Turn the rotary ↺ or ↻ to adjust to desired level. (0 minimum/20 maximum; 10 is default).
Color Setup	When a video source is connected to the front or rear auxiliary inputs, press **INFO** for more than 2 seconds to adjust COLOR SETUP during video play. Press ⋀ or ⋁ to step to the desired menu option:

Sharpness	Turn the rotary ↺ or ↻ to adjust the sharpness. (0 minimum/+15 maximum).
Color	Turn the rotary ↺ or ↻ to adjust the color. (0 minimum/+20 maximum).
Contrast	Turn the rotary ↺ or ↻ to adjust the contrast. (0 minimum/+20 maximum).
Brightness	Turn the rotary ↺ or ↻ to adjust the brightness. (0 minimum/+20 maximum).
Tint	Turn the rotary ↺ or ↻ to adjust the tint. (0 minimum/+20 maximum).

Note: A video signal must be connected to A/V 1 or A/V 2 in order to access the COLOR SETUP menu.

General Operation – Main Menu
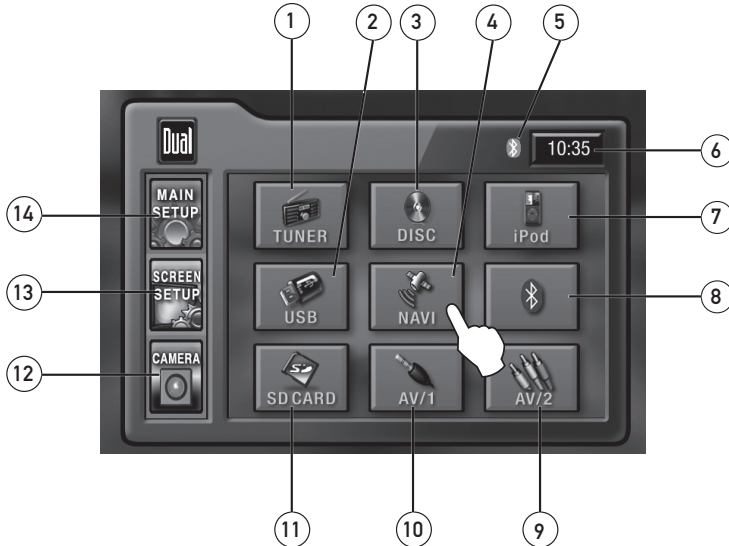
|	
Main Menu Access	There are two methods to access the MAIN menu:
	• Press **MENU** button on the remote control.
	• Touch **MENU** or the upper left corner of the touch screen from any mode (except Navigation).

|	
Button/Icon Identification	
1)	Touch to access **AM/FM TUNER** mode.
2)	Touch to access **USB** mode (optional **USB** flash drive must be inserted).
3)	Touch to access **CD/DVD** mode (**CD/DVD** must be inserted).
4)	Touch to access **NAVIGATION** mode.
5)	Bluetooth icon will illuminate when a Bluetooth device is connected.
6)	Current time is displayed.
7)	Touch to access operation of **iPod** (optional **iPod** device must be connected).
8)	Touch to access **BLUETOOTH** mode.
9)	Touch to access **AUXILIARY A/V2 INPUT** mode.
10)	Touch to access **AUXILIARY A/V1 INPUT** mode.
11)	Touch to access **SD** mode (optional SD memory card must be inserted).
12)	Touch to access **CAMERA** mode (optional camera must be connected).
	Note: If optional camera isn't connected, "No Signal Detected" will be displayed.
13)	Touch to access **SCREEN SETUP** menu.
14)	Touch to access **MAIN SETUP** menu.

17
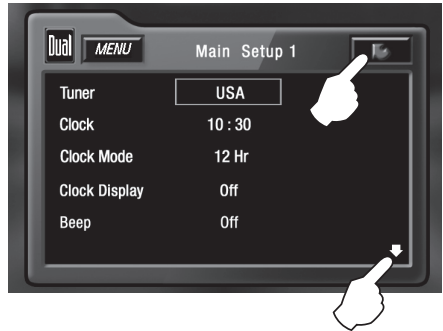
Main Setup - Menu

Main Setup Menu
Page 1
- Press **MAIN SETUP** icon to access the Main 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** arrow in the top right corner.
- Press the **PAGE DOWN** icon to access Main Setup page 2.

MAIN Setup Menu matrix - page 1

Settings	Default	Options	Function
Tuner	USA	USA	Select appropriate tuner frequency spacing for your area
		S-Amer1	
		S-Amer2	
		Europe	
Clock	00:00	00:00	See adjusting the clock on page 21 for more details
Clock Mode	12Hr	12Hr	3:32 (example of 12 hour time setting)
		24Hr	15:32 (example of 24 hour time setting)
Clock Display	Off	Off	Clock is not displayed when unit is powered off
		On	Clock is displayed when unit it powered off
Beep	Off	Off	Disables confirmation beep
		On	Enables confirmation beep

Main Setup - Menu
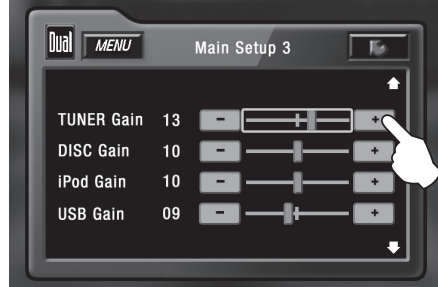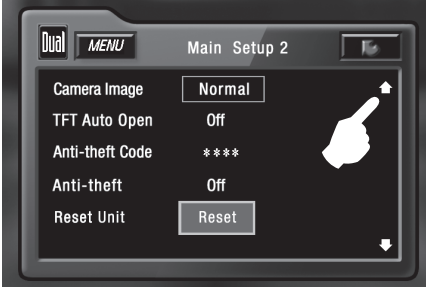
MAIN Setup Menu matrix - page 2

Settings	Default	Options	Function
Camera Image	Normal	Normal	Normal image
		Reverse	Mirror camera image 180 degrees
TFT Auto Open	Off	On	TFT panel will automatically open when ACC is turned on
		Off	TFT panel will not auto open when ACC is turned on
		Manual	TFT will only open/close when OPEN button is pressed
Anti-theft Code	0000	****	Must enter password to turn anti-theft on or off
Anti-theft	Off	On	System will require a password if main battery power is removed
		Off	No password will be required if main battery power is removed
Reset Unit	No	Are you sure? Yes/No	Load all factory parameters to their original settlings **Note:** This will not reset the anti-theft password Default anti-theft password is 0000

MAIN Setup Menu matrix - pages 3 - 5

| Settings	Default	Options	Function
Tuner Gain	10	0 - 20	Adjust the relative level of gain for Tuner mode
Disc Gain	14	0 - 20	Adjust the relative level of gain for Disc mode
iPod Gain	11	0 - 20	Adjust the relative level of gain for iPod mode
USB Gain	14	0 - 20	Adjust the relative level of gain for USB mode
Navi Gain	10	0 - 20	Adjust the relative level of gain for Navi mode
BT-HF Gain	10	0 - 20	Adjust the relative level of gain for Bluetooth hands-free mode
BT-A2DP Gain	10	0 - 20	Adjust the relative level of gain for Bluetooth streaming audio mode
SD Gain	10	0 - 20	Adjust the relative level of gain for SD mode
AV/1 Gain	12	0 - 20	Adjust the relative level of gain for AV/1 mode
AV/2 Gain	12	0 - 20	Adjust the relative level of gain for AV/2 mode

19

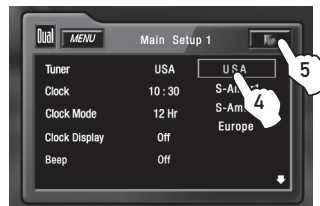# Main Setup – Adjusting Radio Frequency

Adjusting Radio Frequency
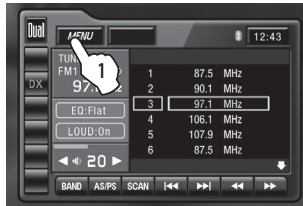
Step 1	Touch **MENU** at the top left corner of screen.

Step 2	Touch **MAIN SETUP** icon.
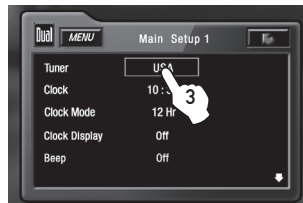
Step 3	Touch **USA**.

Step 4	Touch the setting for your region.

Step 5	Touch **RETURN** to exit.

20

Main Setup – Adjusting the Clock

12Hr Clock Mode
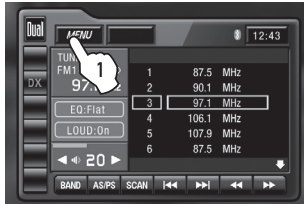
Step 1 | Touch **MENU** at the top left corner of screen.

Step 2 | Touch **MAIN SETUP** icon.
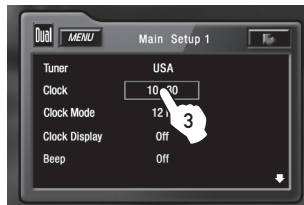
Step 3 | 3) Touch the current time in the **CLOCK** row.
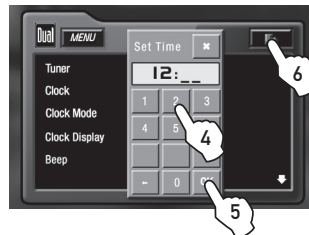
Steps 4-6 | 4) When keypad appears, enter **HOURS**, followed by **MINUTES**.
5) When finished, touch **OK**.
6) Touch **RETURN** to exit.

For 24Hr format, select 24Hr from **CLOCK MODE**, then follow steps 1-6.
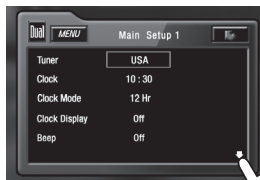
21

Main Setup - Setting the Anti-theft Code

The default Anti-theft password is 0000 and is turned off by default. To turn this feature on, follow the steps below.
CAUTION!! This will lock your unit from operating if battery power is disconnected.
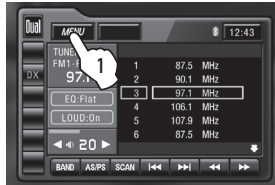
Step 1 & 2

1) Touch **MENU**.

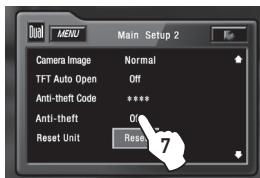2) Touch **MAIN SETUP** icon.
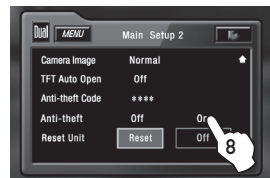
Step 3 & 4

3) Touch down arrow icon.

4) Touch ****.

Step 5 & 6

5) Enter 0000, then press OK.

6) Set new 4-digit password, then press OK.

Note:
It is recommended that you choose your own 4-digit password carefully, write it down somewhere and keep in a safe location. In the event you ever lose or forget your password, call our technical support hot-line at 1-866-382-5476 for support in unlocking the system.

Step 7 & 8

7) Touch Off.

8) Touch On.

Step 9 & 10

9) Enter new 4-digit password (created in step 6), then press OK.

10) Touch **RETURN** to exit.

22

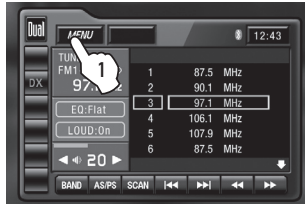# Screen Setup – Menu

Screen Setup Menu

- From the main menu, press **SCREEN SETUP** icon to access the Screen Setup mode.
- Press the **PAGE DOWN** icon to access the Version List (pages 2 and 3).
- Select desired parameter you wish to change.
- Page will return back to previous screen after 15 seconds of inactivity or by pressing the **RETURN** arrow in the top right corner.
- Press the **PAGE UP** icon to access Screen Setup page 1.

SCREEN Setup Menu matrix

| Settings	Default	Options	Function
Brightness	10 (OSD)	0 - 20 (OSD)	Press ◀ or ▶ on the remote, then press **OK** to adjust the brightness to the desired setting. Brightness can also be adjusted by touching the Brightness + and - buttons.
Screen Tilt	2	1 - 4	Select 1 to 4 to adjust the default tilt angle of the screen
TS Calibrate		Calibration	Touch Calibration to enter the Touch Screen calibration mode
Version List			Displays software version of unit (pages 2 and 3)

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 for more than 3 seconds, then turning the rotary to adjust brightness level.
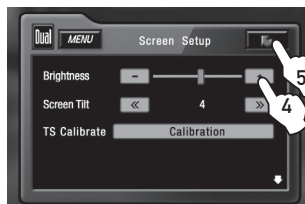
Dual	MENU	🔵 12:43
TUN FM1 97.	1 87.5 MHz	
DX	2 90.1 MHz	
EQ:Flat	3 97.1 MHz	
LOUD:On	4 106.1 MHz	
	5 107.9 MHz	
◄ 🔊 20 ►	6 87.5 MHz	
BAND AS/PS SCAN ◄◄ ►►◄ ◄◄ ►►		

Step 1 | 1) Touch **MENU** at the top left corner of screen.

Step 2 | 2) Touch **SCREEN SETUP** icon.
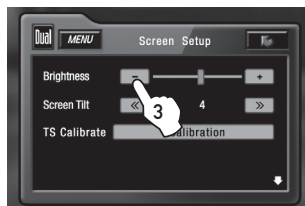
Step 3 | 3) Touch [-] to reduce brightness.
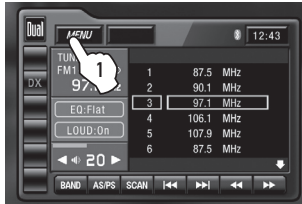
Step 4 | 4) Touch [+] to increase brightness.

Step 5 | 5) Touch **RETURN** to exit.

Note: When using the remote control to adjust the brightness, the OSD range is 0 - 20 and the default is 10.
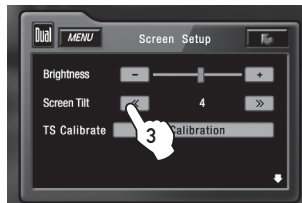
24

Screen Setup – Setting TFT Angle

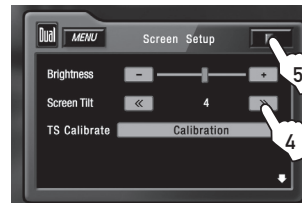**Set for best viewing angle for your vehicle**

Step 1 1) Touch **MENU** at the top left corner of screen.

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

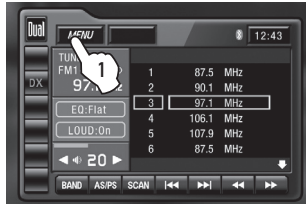**Step 3** 3) Touch << to decrease the screen angle.

Step 4 4) Touch >> to increase the screen angle.

The range is 1 – 4
Default = 1

Step 5 5) Touch **RETURN** to exit.
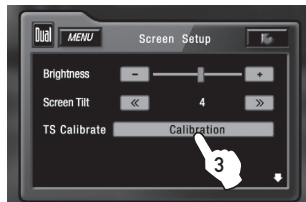
25

Screen Setup - Touch Screen Calibration

Upon initial installation or occasionally, the touch screen may have to be calibrated. Follow these steps as described.
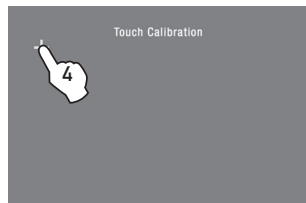
Step 1 | 1) Touch **MENU** at the top left corner of screen.

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

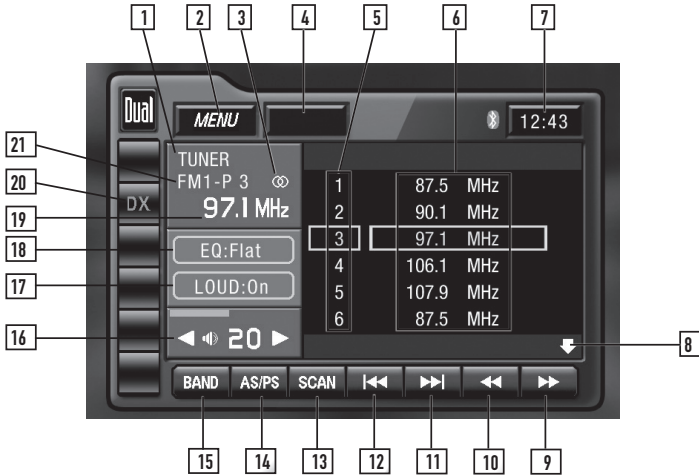**Step 3 & 4** | 3) Touch **Calibration** in TS Calibration row.

Step 4 & 5 | 4) Touch the pointers as indicated on the screen.
5) Screen will automatically return to **MAIN MENU** when the calibration procedure is complete.

26

AM/FM Tuner Operation – OSD Overview

|1| |2| |3| |4| |5| |6| |7|

Dual   **MENU**   🅱 12:43

21
20   DX
19
18   TUNER
17   FM1-P 3 👀
16   **97.1 MHz**

     EQ:Flat
     LOUD:On

     ◄ 🔊 **20** ►

1	87.5	MHz
2	90.1	MHz
3	97.1	MHz
4	106.1	MHz
5	107.9	MHz
6	87.5	MHz

|8|

BAND   AS/PS   SCAN |◄◄   ►►| ◄◄   ►►

|15| |14| |13| |12| |11| |10| |9|

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]   Main Menu
Touch **MENU** to access the main menu.

[3]   Stereo Indicator
Shows that the frequency selected is received in stereo.

[4]   Information Indicator
Displays status of various tuning functions including Auto Station Store, Preset Scan, Scan tuning, etc.

[5]   Preset Number List Display
Shows the preset list by preset number. Touch preset number to select a preset. Touch and hold preset number to store presets.

[6]   Preset Station List Display
Shows the preset station list by frequency. Touch frequency to select a preset. Touch and hold frequency to store presets.

[7]   Clock Indicator
Shows current time.

[8]   Preset List Page – Up/Down
Touch Page Up/Down arrows to select the next or previous page.

27

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 for continuous tuning up. (This function can also be performed by pressing the corresponding key on the remote control.)

10	**Tune Frequency – Down**

Touching this icon will tune the radio to a lower frequency by one frequency step. Touch and hold for continuous tuning down. (This function can also be performed by pressing the corresponding key on the remote control.)

11	**Seek Next Station – Up**

Touching this icon will tune to the next strong station at a higher frequency. (This function can also be performed by pressing the corresponding key on the **front panel** or remote control.)

12	**Seek Next Station – Down**

Touching this icon will tune to the next strong station at a lower frequency. (This function can also be performed by pressing the corresponding key on the **front panel** or remote control.)

13	**Tuner Scan**

Touch this icon to scan through all available stations in the current band. Touch again to disable.

14	**Preset Scan/Auto Station Tune**

Touching this icon will scan through all presets in the current band. Holding this button for more than 2 seconds will automatically program the 12 strongest stations available into the presets in the current band.

15	**Band**

Touch band icon repeatedly until the desired band is displayed, FM1, FM2 or AM. (This function can also be performed by pressing **BAND** button.)

16	**Volume Indicator**

Indicates current volume level, controlled by rotary encoder.

17	**Loudness Indicator**

Touch screen here to turn the Loudness function on/off.

18	**EQ Indicator**

Touch screen here to enter Audio Setup Menu.

19	**Current Station Indicator**

Indicates current frequency.

20	**Local / DX Tuning Mode**

Shows when local or distance tuning is on.

21	**Band Indicator**

Shows which band the radio is tuned to, FM1, FM2 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 the current station information is displayed on the screen.
Band	Touch **BAND** on the screen repeatedly until the desired band is displayed, FM1, FM2 or AM.
	Press the **BAND** button on the front panel to switch between bands, FM1, FM2 or AM.
	From the remote control: Press the **BAND** button.
Manual Tuning	Touch ▶▶ on the screen to tune to the next higher frequency step. Touch ◀◀ on the screen to tune to the next lower frequency step.
	Touch and hold either ◀◀ or ▶▶ on the screen to continue tuning across multiple stations.
	From the remote control: Touch ◀◀ or ▶▶ to perform manual tuning.
Seek Tuning	Touch ▶▶| to tune to the next higher strong station. Touch |◀◀ to tune to the next lower strong station.
	From the remote control: Press ▶▶| to tune to the next higher strong station. Press |◀◀ to tune to the next lower strong station.
Storing Presets	There are 24 FM and 12 AM presets available in 3 bands. After finding the desired frequency to store in memory, touch and hold the screen on any of the frequencies or preset numbers in the preset station list until it turns yellow. The new station will replace the previous selection.
Auto Store Presets	Press and hold **AS/PS** on the front panel or touch and hold **AS/PS** to automatically program the 12 strongest stations available into the presets in the current band.
Preset Scan	Press **AS/PS** on the front panel or touch **AS/PS** to scan through all tunable presets in the current band and play them for 10 seconds each.

29

AM/FM Tuner Operation

Direct Preset Tuning

To select a desired station from the preset station list, touch any of the displayed station frequencies or preset numbers from the list. Use the up and down arrows on screen to select between the preset pages, if necessary.

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

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/Distance 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. To return to distance tuning mode, press the **LOC** button again. (Distance tuning is the default tuning mode.)

⚠ 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 Setup - Parking Brake Initialization

⚠ SAFETY WARNING ⚠

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

**ENGAGE EMERGENCY BRAKE
TO WATCH 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.
- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, **!!Safety Warning!!** 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. Connect the yellow/blue **PARKING BRAKE** wire to the brake switch circuit as described on page 6. **Note:** DVD and AUX AV audio can be heard while the vehicle is in motion without engaging the parking brake.

**Front Monitor Video
Initialization**

Follow these two initialization procedures carefully to allow video playback on on the XDVDN9131 front monitor:

There are two situations to initiate the PARKING BRAKE sequence.

**Parking Brake Initialization
Situation 1**

First situation (if vehicle is moving):
1) Stop vehicle, put in Park, make sure PARKING BRAKE is off/released.
2) Depress PARKING BRAKE for 1 second.
3) Release PARKING BRAKE for 1 second.
4) Depress PARKING BRAKE permanently.

Note:
Once above procedure 1-4 is completed, video will display in about 2 seconds.

**Parking Brake Initialization
Situation 2**

Second situation (if vehicle is 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 above procedure 1-5 is completed, video will display in about 2 seconds.
The transition time must be less than 2 seconds between depress and release.
This procedure must be repeated anytime the vehicle ignition is turned off.

DVD Setup – Region Management

DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVDN9131 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 XDVDN9131 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
DVD VIDEO / **DVD** 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
disc DIGITAL VIDEO	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
disc DIGITAL AUDIO TEXT	Single side single layer	74 minutes

Symbol	Meaning
(8))	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.
ALL	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 XDVDN9131 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

33

DVD Setup - Inserting a Disc

Eject Button

Disc Loading Slot
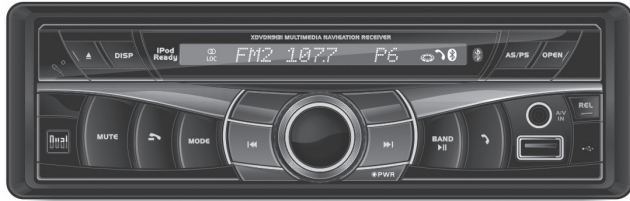
Insert DVD with label facing upwards

Inserting a Disc	Press **REL** to fold down the front panel. With the label facing up, insert a standard size disc into the slot. Gently close the front panel, the disc will automatically begin playback. 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 38.
Ejecting the Disc	Press **REL** to fold down the front panel, then press the **EJECT** button.
Reset 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.

34

DVD Setup – Touch Screen Controls

Hidden Touch Screen areas while in DVD mode

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

"A" area can be used in DVD, A/V 1 and A/V 2 modes to access **MAIN** menu.

Using the hidden Touch Screen Controls

A – Displays **MAIN** menu
B – Displays **DVD** disc information
C – Selects **PREVIOUS** chapter
D – Selects **NEXT** chapter
E – Displays the **DVD** transport controls
F – Displays search menu
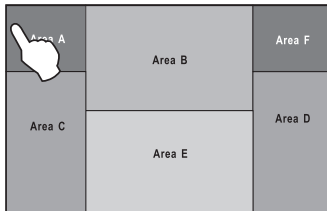
AREA A
Access MAIN Menu
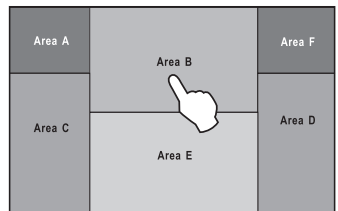
AREA B
Displays Disc Information

Note:
A DVD disc must be inserted to access these functions and features.
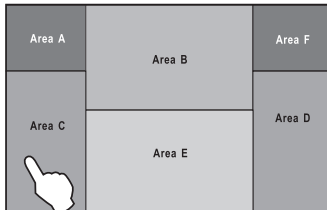
AREA C
Selects PREVIOUS Chapter
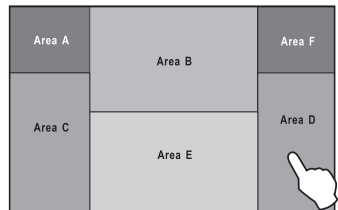
AREA D
Selects NEXT Chapter
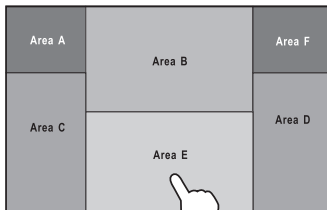
AREA E
Displays DVD Transport Controls

AREA F
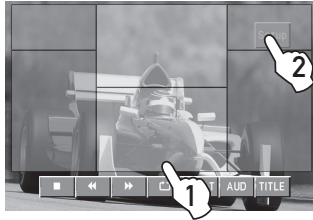**DVD Search**

35
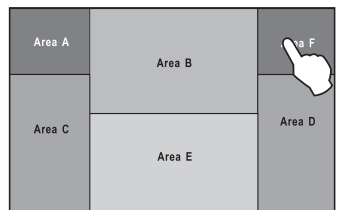
DVD Setup Menu – Language

LANGUAGE Setup Menu

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

With the unit in DVD mode, press AREA E (bottom center of screen) to display the DVD transport controls (1). Press **Setup** (2) or press and hold the 0 key on the remote to access the DVD setup menu. The LANGUAGE setup menu will automatically be displayed.
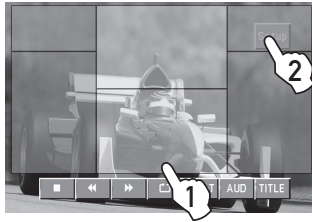
Sub Title

Press the current selection to select desired disc subtitle language.

English
French
Spanish
Auto
Off = DEFAULT

DVD Audio

Press the current selection to select desired disc audio language.

English = DEFAULT
French
Spanish

DVD Menu

Press the current selection to select desired disc menu language.

English = DEFAULT
French
Spanish

DVD Setup Menu - Video Settings

Video Setup Menu

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

With the unit in DVD mode, press AREA E (bottom center of screen) to display the DVD transport controls (1). Press **Setup** (2) or press and hold the 0 key on the remote to access the DVD setup menu. The LANGUAGE setup menu will automatically be displayed. Press the VIDEO icon (3) to display the VIDEO setup menu.

TV Shape

Press to select desired TV shape.

Normal/PS
Normal/LB
Wide

Angle Mark

Select On to activate angle mark.

On
Off

37

DVD Setup Menu - Rating

Rating Setup Menu

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

With the unit in DVD mode, press AREA E (bottom center of screen) to display the DVD transport controls (1). Press **Setup** (2) or press and hold the 0 key on the remote to access the DVD setup menu. The LANGUAGE setup menu will automatically be displayed. Press the RATING icon (3) to display the RATING setup menu.

Enable Parental Lock Password

Touch the current rating, select desired rating, then input password. Default password is "0000".

Setting Parental Lock Password

1. Touch ****, enter current password, then press OK.
2. Enter new password, then press OK.

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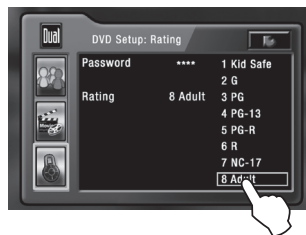
1. Kid Safe
2. G
3. PG
4. PG-13
5. PG-R
6. R
7. NC-17
8. Adult = DEFAULT

Parental Password Override

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

DVD Operation - Touch Screen Controls

Using the Hidden Touch Screen Controls

1

Touch AREA E

2 3 4 5 6 7 8
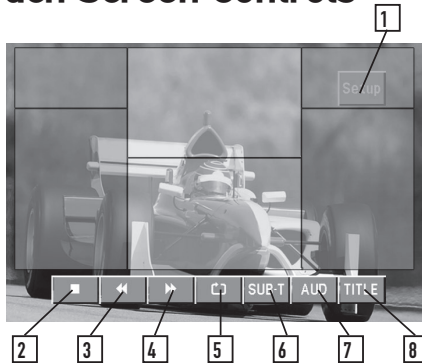
DVD Mode

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

1 **Setup Menu**

   Touch to access the DVD Setup menu.

2 **Stop**

   Touch the ■ icon to stop the chapter where it is (resume stop).
   Touch again to stop the disc (full stop).

3 **Fast Reverse**

   Touch the ◄◄ icon to fast reverse at 2x speed. Each touch changes
   speed from 2x to 4x to 8x to 16x to 32x, then back to 1x play.

4 **Fast Forward**

   Touch the ►► icon to fast forward at 2x speed. Each touch changes
   speed from 2x to 4x to 8x to 16x to 32x, then back to 1x play.

5 **Repeat**

   Touch the ↻ icon to repeat the current chapter or title.

6 **Sub-Title Mode**

   Touch to activate sub-titles on DVD's that have multiple
   sub-title languages.

7 **Audio Mode**

   Touch to activate alternate audio modes on DVD's that have
   alternate audio streams.

8 **Title Menu**

   Touch to access DVD Title menu.

39

DVD Operation - Searching a DVD

Searching a DVD

Searching by Time, Title or Chapter

Touch Area F to bring up the Search keypad, which allows a search for a specific time, title or chapter. The Time search window appears as the default.
Press Time to toggle to the Title/Chapter search window.

Time Search

Once the Time search window is open, use the keyboard to enter a specific time on the disc, then touch **OK**. For example, to skip to 1 hour, 12 minutes and 19 seconds into the DVD, touch **0 1, 1 2, 1 9, OK**).

Title/Chapter Search

Once the Title/Chapter search window is open, use the keypad to enter a specific title and/or chapter on the disc, then 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.

From the remote control:
Press **SRCH** once to access Time. Press **SRCH** again to access Title/Chapter. 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**.

> **Note:**
> Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVDN9131 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 16x to 32x and back to 1x. From the front panel: Press and hold ▶▶ to fast forward. Press and hold ◀◀ to fast reverse. From the remote control: Press ▶▶ to fast forward. Press ◀◀ to fast reverse.
Repeat Mode	Touch the ⟲ icon to repeat either a chapter or title. The first touch activates **Repeat Chapter** mode and a second touch activates **Repeat Title** mode. Press a third time to turn **Repeat Off**. 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.
Play/Pause	Touch ▶/❙❙ on the front panel to temporarily stop playback of the DVD. Touching it again will resume playback, From the remote control: Press **PLAY** to temporarily stop and resume playback.
Stop	From the remote control, touch ■ to stop playback. Pressing **PLAY** at this point will resume playback. If ■ is touched a second time, then playback stops completely and will restart from the beginning of the disc.
Sub-Titles	Touch the **SUB-T** icon to activate **Sub-Title** menu and select a sub-title language. Each touch will cycle the sub-title 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**. **Notes**: • Not all DVD's have sub-titles and when they do, some will only have 1 language. Therefore this function may be disabled or limited. • The sub-title can only be changed while the DVD is playing.

41

DVD Operation

DVD Audio

Touch **AUD** to change the audio stream. Each touch will cycle the audio stream.

From the remote control:
Press the **AUDIO** button to select the **Audio** stream.

Notes:
• Not all DVD's have multiple languages, therefore this function may be disabled or limited.
• The **Audio** stream can only be changed while the DVD is playing.

DVD Disc Information

Touch Area B or press **INFO** to bring up the **DVD Disc Information**, which includes: Current/Total Titles (1), elapsed time for current title (2), EQ Mode (3), current time (4), Current/Total Chapters (5), and Loudness setting (On/Off) (6).

	1	2	3	4
DVD	T: 1/47 C: 2/21	00:11:52	User Off	1:01
	5		6	
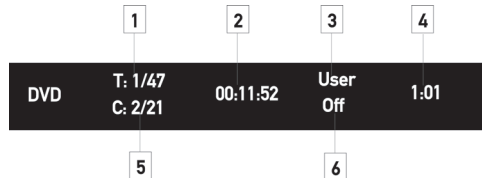
From the remote control:
Press the **INFO** button to bring up the **DVD Disc Information**.

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 1x to 2x to 3x to 4x then to 1/2x, 1/3x, 1/4x and back to normal.
When **Zoom Mode** is active in 2x, 3x or 4x, 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 main menu.

From the remote control:
Press **TITLE** to return to the DVD main menu.
Press **ROOT** to move up one level on the DVD 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** functions may be reversed.

42

CD Operation – OSD Overview
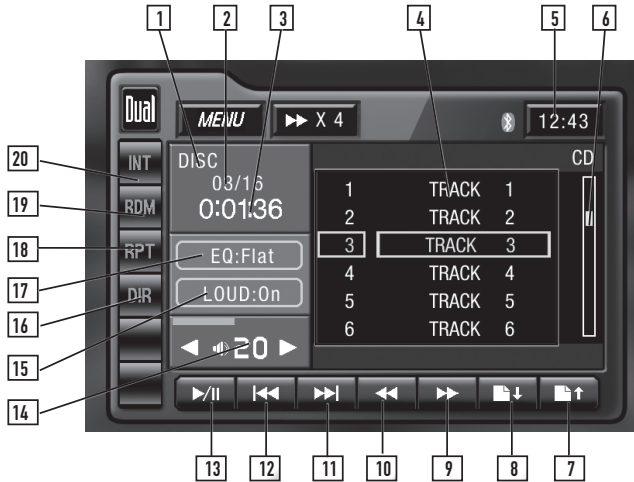
CD Mode	From the main menu, touch the **DISC** icon on the screen to select CD mode.
1	**Current Source Indicator**
	Displays source currently playing.
2	**Track Number Indicator**
	Displays current track number and total number of tracks on the disc.
3	**Track Time Indicator**
	Shows the elapsed time of the current track.
4	**Track Title List**
	Displays up to 6 tracks on the disc in order, with track number.
5	**Clock**
	Displays the current time.
6	**Scroll bar**
	Indicates position of current track relative to the disc.
7	**Page Up**
	Touch the icon to see the previous 6 tracks on the disc.

CD Operation – OSD Overview

8

Page Down

Touch the 🔲 icon to see the next 6 tracks on the disc.

9

Fast Forward

Touch the ►► icon to fast forward at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then to 1x play.

10

Fast Reverse

Touch the ◄◄ icon to fast reverse at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then to 1x play.

11

Track Up

Touch ►►I to skip ahead to the next track.

12

Track Down

Touch I◄◄ once to return to the beginning of the current track. Press again to return to the previous track.

13

Play/Pause

Touch the ►/∎ icon to temporarily stop or resume playback.

14

Volume Adjustment

Indicates current volume level. Turn the rotary or use the volume ◄ or ► on screen to adjust the volume level lower or higher (0-46).

15

Loudness Indicator

Touch **LOUD** to turn the Loudness feature On or Off.

16

Direct Select Keyboard

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

17

EQ Indicator

Touch screen here to enter Audio Setup Menu.

18

Repeat

Touch **RPT** to repeat current track. **Rpt Trk** will appear next to the **MENU** button while this feature is activated. Touch **RPT** again to exit Repeat mode.

19

Random

Touch **RDM** to shuffle all tracks on the disc. **Random** will appear next to the **MENU** button while this feature is activated. Touch **RDM** again to exit Random mode.

20

Intro

Touch **INT** to listen to 10 seconds of each track in order. **Intro** will appear next to the **MENU** button while this feature is activated. Touch **INT** again to exit Intro mode.

CD Operation

Navigating the Track Title List

Navigate the track title list in one of two ways:
• Using the Page Up and Page Down buttons on the screen.
• Using the arrow buttons on the remote control.

Track Select

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

From the remote control:
Press ▲ or ▼ to scroll through the tracks. When the correct track is highlighted press **OK**.

Direct Select

To navigate forwards or backwards through all tracks, press ◄◄ or ►►◄ on the screen, front panel or remote control:
Press ►►◄ to skip to the next track.
Press ◄►► to skip to the previous track.

Note: Pressing ◄►► once will return to the beginning of the current track. Pressing it a second time will skip to the previous track.

Direct Track Entry

Touch **DIR** 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.

Fast Forward/Fast Reverse

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 16x to 32x and back to 1x.

Press ►► to fast forward.
Press ◄◄ to fast reverse.

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

Intro Mode

Touch **INT** on the screen to listen to all tracks on the CD for 10 seconds at a time, starting from the next track on the CD. **Intro** will appear next to the **MENU** button while this feature is activated. Touch **INT** again to exit Intro Mode.

Random Mode

Touch **RDM** to shuffle all of the tracks on the CD. **Random** will appear next to the **MENU** button while this feature is activated. Touch **RDM** again to exit Random Mode.

CD Operation

Repeat Mode	Touch **RPT** to repeat a track. **Rpt Trk** will appear next to the **MENU** button while this feature is activated. Touch **RPT** again to exit 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.)
Play/Pause	Press the ▶/❙ button to temporarily stop or resume playback. From the remote control: Press **PLAY** to temporarily stop and resume playback.
Stop	From the remote control: Press ■ on the remote control to stop playback of the current song. Pressing **PLAY** at this point will resume playback. If ■ is touched a second time, playback stops completely and will restart from the beginning of the CD.

MP3/WMA/JPG Operation – OSD Overview
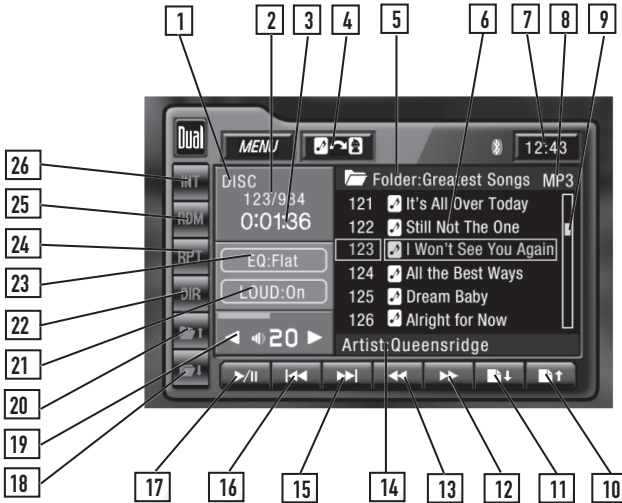
	MP3/WMA/JPG Mode	From the main menu, touch the **DISC** or **USB** icon on the screen.
1	Current Source Indicator	Displays source currently playing.
2	File Number Indicator	Displays current file number and total number of files in the current folder.
3	Elapsed Time Indicator	Shows the elapsed time of the current song.
4	Audio to Image Indicator	Press to switch from audio files to image files.
5	Folder Name	Displays the name of the currently selected folder.
6	Playlist	Displays up to 6 files in order, with filename.
7	Clock	Displays the current time.
8	File Type Indicator	Displays type of file, either **MP3**, or **WMA** or **JPG**.
9	Scroll bar	Indicates position of current file relative to the current folder.
10	Page Up	Touch the ⬛ icon to see the previous 6 files in the current folder.

47

MP3/WMA/JPG Operation – OSD Overview

11   Page Down

Touch the ☐ icon to see the next 6 files in the current folder.

12   Fast Forward

Touch the ►► icon to fast forward at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then to 1x play.

13   Fast Reverse

Touch the ◄◄ icon to fast reverse at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then to 1x play.

14   Information

Displays available ID3 tag information for the current song.

15   Track Up

Touch ►►| to skip ahead to the next track.

16   Track Down

Touch |◄◄ once to return to the beginning of the current track. Press again to return to the previous track.

17   Play/Pause

Touch ►/❚ icon to temporarily stop or resume playback.

18   Next Folder

Touch the ☐ icon to select the next available folder.

19   Volume Adjustment

Indicates current volume level. Turn the rotary or use the volume ◄ or ► on screen to adjust volume level lower or higher (0-46).

20   Previous Folder

Touch the ☐ icon to select the previous available folder.

21   Loudness Indicator

Touch **LOUD** to turn the Loudness feature On or Off.

22   Direct Select Keyboard

Press **DIR** to display a numeric keyboard. Enter desired track number and touch **OK** to select it.

23   EQ indicator

Press **EQ** to enter the Audio Setup Menu.

24   Repeat

Touch **RPT** to repeat current track and again to repeat all tracks in the current folder. Touch **RPT** again to exit Repeat mode.

25   Random

Touch **RDM** to shuffle all tracks in the current folder and again to shuffle all tracks. Touch **RDM** again to exit Random mode.

26   Intro

Touch **INT** to listen to 10 seconds of each track in the current folder and again to preview all tracks. Touch **INT** again to exit Intro mode.

48

MP3/WMA/JPG Operation

Audio to Image Indicator

The Audio to Image indicator allows the selection of either audio (MP3 or WMA) or image (JPEG) files to be displayed in the Playlist.

Indicates that audio files are currently displayed. Press to switch to viewing image files.

Indicates that image files are currently displayed. Press to switch to viewing audio files.

Folder List

Press the Folder Name area at the top of the screen to display the first six folders. Press ⬜ or ⬜ or use the ▲ and ▼ buttons on the remote control to view additional folders.

Navigating the Folder/Playlist

Once a folder is selected, the display will change to show the first six files in that folder. The current folder name will appear in the Folder Name area. Press ⬜ to navigate back to the previous folder, or press ⬜ to skip forward to the next folder.

File Select

Navigate through the Playlist by pressing ⬜ or ⬜ on the screen. Once the desired file is highlighted, simply touch the screen at the appropriate file name to begin playback.

From the remote control:
Press ▲ or ▼ to scroll through the files. When the correct file name is highlighted press **OK**.

Direct Select

To navigate forwards or backwards through all tracks, press ◄◄ or ►► on the screen, front panel or remote control:
Press ►► to skip to the next track.
Press ◄◄ to skip to the previous track.

Note: Pressing ◄◄ once will return to the beginning of the current track. Pressing it a second time will skip to the previous track.

Note: Pressing ►► from the last track in one folder will advance to the first track in the next folder. Pressing ◄◄ from the first track in a folder will return to the previous folder.

Direct Track Entry

Touch **DIR** to display a numeric keyboard. Enter desired track number in the current folder, and touch **OK** to select it.

From the remote control:
Use the numeric keypad to enter the desired track number in the current folder.

Fast Forward/Fast Reverse

Use the Fast Forward or Fast Reverse on-screen buttons to speed up the playback. Each subsequent press of the button will change the speed from normal to 2x to 4x to 8x to 16x to 32x and back to 1x.

Intro Mode

Touch **INT** on the screen to listen to all tracks in the current folder for 10 seconds at a time, starting from the next track. **Int Fol** will appear next to the **MENU** button while this feature is activated.

49

MP3/WMA/JPG Operation

Intro Mode	Touch **INT** again to preview all tracks. **Intro** will appear next to the **MENU** button while this feature is activated. Touch **INT** again to exit Intro Mode.
Random Mode	Touch **RDM** on the screen to shuffle all tracks in the current folder. **Rdm Fol** will appear next to the **MENU** button while this feature is activated.
	Touch **RDM** again to shuffle all tracks. **Rdm All** will appear next to the **MENU** button while this feature is activated. Touch **RDM** again to exit Random Mode.
Repeat Mode	Touch **RPT** to repeat a track and again to repeat all tracks in the current folder. **Rpt Trk** or **Rpt Fol** will appear next to the **MENU** button while this feature is activated. Touch **RPT** again to exit Repeat Mode.
Play/Pause	Press **PLAY/PAUSE to** temporarily stop playback of the current track. Touching it again will resume playback,
Stop	Press ■ on the remote control to stop playback of the current track. Pressing **PLAY** at this point will resume playback. If ■ is touched a second time, playback stops completely and will restart from the beginning.

Area A

Area C   Area E   Area D

■   ↻   Esc

JPG OSD Controls	When viewing JPG images from a Disc or USB device, the hidden controls function similar to DVD mode. Refer to page 35 for more details.
	Press Area E to display the JPG on-screen controls.
	Press ■ to stop the slideshow.
	Press ↻ to rotate the image by 90˚.
	Press ESC to hide the OSD controls.
	Notes: It is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction. The JPG image viewer function will only operate when vehicle is in Park and the parking brake is engaged as described on page 32.

50

USB/SD Operation – OSD Overview
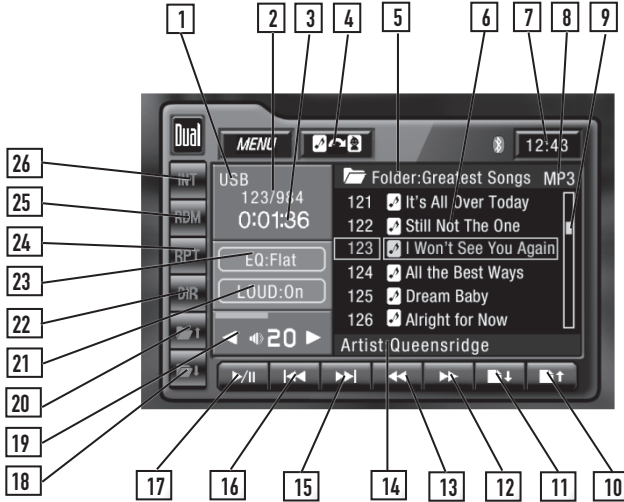
USB/SD Mode	From the main menu, touch the **USB or SD** icon on the screen.	
1	Current Source Indicator	Displays source currently playing.
2	File Number Indicator	Displays current file number and total number of files in the current folder.
3	Elapsed Time Indicator	Shows the elapsed time of the current song.
4	Audio to Image Indicator	Press to switch from audio files to *image files.
5	Folder Name	Displays the name of the currently selected folder.
6	Playlist	Displays up to 6 files in order, with filename.
7	Clock	Displays the current time.
8	File Type Indicator	Displays type of file, either **MP3**, or **WMA** or **JPG**.
9	Scroll bar	Indicates position of current file relative to the current folder.
10	Page Up	Touch the ⬜ icon to see the previous 6 files in the current folder.

*Note:
To provide the highest level of navigation performance, this model does not support JPG image file playback from SD cards.

51

USB/SD Operation – OSD Overview

| 11 | **Page Down** |
| | Touch the ⊡ icon to see the next 6 files in the current folder. |

| 12 | **Fast Forward** |
| | Touch the ►► icon to fast forward at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then to 1x play. |

| 13 | **Fast Reverse** |
| | Touch the ◄◄ icon to fast reverse at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then to 1x play. |

| 14 | **Information** |
| | Displays available ID3 tag information for the current song. |

| 15 | **Track Up** |
| | Touch ►►► to skip ahead to the next track. |

| 16 | **Track Down** |
| | Touch ◄◄◄ once to return to the beginning of the current track. Press again to return to the previous track. |

| 17 | **Play/Pause** |
| | Touch ►/∥ icon to temporarily stop or resume playback. |

| 18 | **Next Folder** |
| | Touch the ⊡ icon to select the next available folder. |

| 19 | **Volume Adjustment** |
| | Indicates current volume level, Turn the rotary or use the volume ◄ or ► on screen to adjust volume level lower or higher (0-46). |

| 20 | **Previous Folder** |
| | Touch the ⊡ icon to select the previous available folder. |

| 21 | **Loudness Indicator** |
| | Touch **LOUD** to turn the Loudness feature On or Off. |

| 22 | **Direct Select Keyboard** |
| | Press **DIR** to display a numeric keyboard. Enter desired track number and touch **OK** to select it. |

| 23 | **EQ indicator** |
| | Press **EQ** to enter the Audio Setup Menu. |

| 24 | **Repeat** |
| | Touch **RPT** to repeat current track and again to repeat all tracks in the current folder. Touch **RPT** again to exit Repeat mode. |

| 25 | **Random** |
| | Touch **RDM** to shuffle all tracks in the current folder and again to shuffle all tracks. Touch **RDM** again to exit Random mode. |

| 26 | **Intro** |
| | Touch **INT** to listen to 10 seconds of each track in the current folder and again to preview all tracks. Touch **INT** again to exit Intro mode. |

USB/SD Operation

USB/SD Connection	Connect a USB device or insert an SD card. When inserting an SD card, the label should face away from the unit. Note: The unit will automatically switch to SD mode when an SD card is inserted.
Audio to Image Indicator	The Audio to Image indicator allows the selection of either sound (MP3 or WMA) or image (JPEG) files to be displayed in the Playlist.
Note	To provide the highest level of navigation performance, this model does not support JPG image file playback from SD cards.

Indicates that audio files are currently displayed. Press to switch to viewing image files.

Indicates that image files are currently displayed. Press to switch to viewing audio files.

Folder List	Press the Folder Name area at the top of the screen to display the first six folders. Press ▢ or ▢ or use the ▲ and ▼ buttons on the remote control to view additional folders.
Navigating the Folder/Playlist	Once a folder is selected, the display will change to show the first six files in that folder. The current folder name will appear in the Folder Name area. Press ▢ to navigate back to the previous folder, or press ▢ to skip forward to the next folder.
Track Select	Navigate through the Playlist by pressing ▢ or ▢ on the screen. Once the desired file is highlighted, simply touch the screen at the appropriate file name to begin playback. From the remote control: Press ▲ or ▼ to scroll through the files. When the correct file name is highlighted press **OK**.
Direct Select	To navigate forwards or backwards through all tracks, press ◀◀ or ▶▶ on the screen, front panel or remote control: Press ▶▶ to skip to the next track. Press ◀◀ to skip to the previous track. Note: Pressing ◀◀ once will return to the beginning of the current track. Pressing it a second time will skip to the previous track. Note: Pressing ▶▶ from the last track in one folder will advance to the first track in the next folder. Pressing ◀◀ from the first track in a folder will return to the previous folder.
Direct Track Entry	Touch **DIR** to display a numeric keyboard. Enter desired track number in the current folder, and touch **OK** to select it. From the remote control: Use the numeric keypad to enter the desired track number in the current folder.

53

USB/SD Operation

Fast Forward/Fast Reverse

Use the Fast Forward or Fast Reverse on-screen buttons to speed up the playback. Each subsequent press of the button will change the speed from normal to 2x to 4x to 8x to 16x to 32x and back to 1x.

Press ▶▶ to fast forward.
Press ◀◀ to fast reverse.

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

Intro Mode

Touch **INT** on the screen to listen to all tracks in the current folder for 10 seconds at a time, starting from the next track. **Int Fol** will appear next to the **MENU** button while this feature is activated.

Touch **INT** again to preview all tracks. **Intro** will appear next to the **MENU** button while this feature is activated. Touch **INT** again to exit Intro Mode.

Random Mode

Touch **RDM** on the screen to shuffle all tracks in the current folder. **Rdm Fol** will appear next to the **MENU** button while this feature is activated.

Touch **RDM** again to shuffle all tracks. **Rdm All** will appear next to the **MENU** button while this feature is activated. Touch **RDM** again to exit Random Mode.

Repeat Mode

Touch **RPT** to repeat a track and again to repeat all tracks in the current folder. **Rpt Trk or Rpt Fol** will appear next to the **MENU** button while this feature is activated. Touch **RPT** again to exit Repeat Mode.

From the remote control:
Press ⟳ to select between 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

Press **PLAY/PAUSE to** temporarily stop playback of the current track. Touching it again will resume playback,

Stop

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

Press ■ on the remote control to stop playback of the current track. Pressing **PLAY** at this point will resume playback. If ■ is touched a second time, playback stops completely and will restart from the beginning.

Notes: It is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction. The JPG image viewer function will only operate when vehicle is in Park and the parking brake is engaged as described on page 32.

Media Compatibility - Disc

MEDIA			CD/DVD	
File Type			WMA	MP3
File System	ISO9660	Level 1, Level 2	✔	✔
		Level 3	X	X
	ISO9660 Extension	JOLIET Playback	✔	✔
		JOLIET Filename	32 bytes	32 bytes
	Other Extensions	ROMEO Playback	X	X
		ROMEO Filename	X	X
		Apple ISO	X	X
File Extension	.mp3/.MP3/.Mp3/.mP3		X	✔
	.wma/.WMA		✔	X
	.rmp/.m4a		X	X
MPEG Format	MPEG 1		X	✔
	MPEG 2		X	✔
	MPEG 2.5		X	✔
Sampling Frequency	MPEG 1		X	8/11.025/12/16/22.05 24/32/44.1/48kHz
	MPEG 2		X	32/44.1/48kHz
	MPEG 2.5		X	8/11.025/12/16/22.05 24/32/44.1/48kHz
	WMA		22.05/32/44.1/48kHz	X
Bitrate	MPEG 1		X	8 ~ 320kbps
	MPEG 2		X	64 ~ 912kbps
	MPEG 2.5		X	8 ~ 320kbps
	WMA		32 ~ 192kbps	X
Other Information	Directory Depth		Unlimited	Unlimited
	File Name Length		23 bytes	23 bytes
	Total File Number		3000 files	3000 files
	Total Folder Number		256 folders	256 folders
	File Number via Folder		3000 files	3000 files
	MP3 ID3 TAG	ver.1.x	X	✔
		ver.2.x	X	v2.3
		Title, Artist, Album	X	✔
	WMA TAG	Title, Artist, Album	✔	X

Media Compatibility – USB/SD

MEDIA			USB Flash Drive/SD Card	
File Type			WMA	MP3
File System	FAT	FAT 12	X	X
		FAT 16/FAT 32	✔	✔
File Extension		.mp3/.MP3/.Mp3/.mP3	X	✔
		.wma/.WMA	✔	X
		.rmp/.m4a	X	X
MPEG Format		MPEG 1	X	✔
		MPEG 2	X	✔
		MPEG 2.5	X	✔
Sampling Frequency		MPEG 1	X	8/11.025/12/16/22.05 24/32/44.1/48kHz
		MPEG 2	X	32/44.1/48kHz
		MPEG 2.5	X	8/11.025/12/16/22.05 24/32/44.1/48kHz
		WMA	22.05/32/44.1/48kHz	X
Bitrate		MPEG 1	X	8 ~ 320kbps
		MPEG 2	X	64 ~ 912kbps
		MPEG 2.5	X	8 ~ 320kbps
		WMA	32 ~ 192kbps	X
Other Information		Directory Depth	Unlimited	Unlimited
		File Name Length	23 bytes	23 bytes
		Total File Number	3000 files	3000 files
		Total Folder Number	256 folders	256 folders
		File Number via Folder	3000 files	3000 files
	MP3 ID3 TAG	ver.1.x	X	✔
		ver.2.x	X	v2.3
		Title, Artist, Album	X	✔
	WMA TAG	Title, Artist, Album	✔	X

Notes:
- To provide the highest level of navigation performance, this model does not support JPG file playback from SD cards.
- For disc and USB modes, it is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction.
- The JPG image viewer function will only operate when vehicle is in park and the parking brake is engaged as described on page 32.
- Due to ongoing technological advancement, some USB flash drives and/or SD cards may be incompatible with this unit.

Media Compatibility – Notes

Media Compatibility	The following types of discs are compatible: • CD-DA, CD-ROM (ISO), CD-R, CD-RW • DVD Video, DVD+R/RW, DVD-R/RW The following types of discs/files are **not** compatible: • WMA files that are protected by DRM (Digital Rights Management) • WMA lossless format • Discs recorded with Track At Once or packet writing • MP3 PRO format, MP3 playlists • RMP format • WAV format • WMV format • DivX, Xvid format • AVI format • MPG, MPEG-4 format • AAC, protected AAC, M4A format Some recordable DVD's and CD's 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, USB flash drive or SD card. Any empty folders or folders that do not include MP3/WMA/JPG files are skipped. Refer to your recording software's user's manual for more information.
Compatible Recording Formats	ISO9660 standards: • Maximum nested folder depth is 8 (including the root folder). • Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and "_" (underscore). Some characters may not be displayed correctly, depending on the character type. • This device can play back discs in Joliet and other standards that conform to ISO9660. MP3/WMA written in the formats other than the above may not play and/or their file names or folder names may not be displayed properly.
Additional MP3/WMA Information	An internal buffer provides ESP (Electronic Skip Protection) to virtually eliminate skipping. When playing a disc recorded with regular audio files (CD-DA or .WAV) and MP3/WMA files, the unit will play the MP3/WMA files only.
Notes	Some files may not play or be displayed correctly, depending on sampling rates and bit rates. For best results, use the following settings when ripping MP3 files: 128kbps or higher constant bit rate 44.1kHz or higher sampling frequency For best results, use the following settings when ripping WMA files: 64kbps or higher constant bit rate 44.1kHz or higher sampling frequency

57

Operation of iPod - OSD Overview
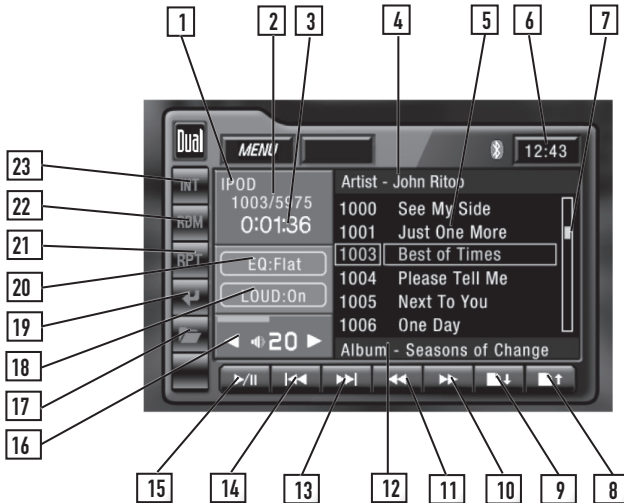
Operation of iPod		Connect an iPod device using the included cable. From the main menu, touch the icon of the iPod device on the screen.
1		Current Source Indicator
		Displays source currently playing.
2		Song Number Indicator
		Displays current song number and total number of songs.
3		Elapsed Time Indicator
		Shows the elapsed time of the current song.
4		Artist Information
		Displays the artist information for the currently selected song.
5		Playlist
		Displays up to 6 songs/groups in order, with filename.
6		Clock
		Displays the current time.
7		Scroll bar
		Indicates position of current song in relation to the current folder.
8		Page Up
		Touch the icon to see the previous 6 songs.
9		Page Down
		Touch the icon to see the next 6 songs.

58

Operation of iPod - OSD Overview

10	**Fast Forward**
	Touch the ▶▶ icon to fast forward at 2x speed. Touch again to cancel.

11	**Fast Reverse**
	Touch the ◀◀ icon to fast reverse at 2x speed. Touch again to cancel.

12	**Album Information**
	Displays available album information for the current song.

13	**Track Up**
	Touch ▶▶| to skip ahead to the next song.

14	**Track Down**
	Touch |◀◀ once to return to the beginning of the current song. Press again to return to the previous song.

15	**Play/Pause**
	Touch ▶/❚ icon to temporarily stop or resume playback.

16	**Volume Adjustment**
	Indicates current volume level, Turn the rotary or use the volume ◀ or ▶ on screen to adjust volume level lower or higher (0-46).

17	**Search Menu**
	Allows selection of content by various groups.

18	**Return/Back**
	Touch 🔄 to return to the previous group/menu.

19	**Loudness Indicator**
	Touch **LOUD** to turn the Loudness feature On or Off.

20	**EQ indicator**
	Press **EQ** to enter the Audio Setup Menu.

21	**Repeat**
	Touch **RPT** to repeat current song. **Repeat** will appear next to the **MENU** button while this feature is activated. Touch **RPT** again to exit Repeat mode.

22	**Random**
	Touch **RDM** to shuffle all songs. **Random** will appear next to the **MENU** button while this feature is activated. Touch **RDM** again to exit Random mode.

23	**Intro**
	Touch **INT** to listen to 10 seconds of each song in order. **Intro** will appear next to the **MENU** button while this feature is activated. Touch **INT** again to exit Intro mode.

59

Operation of iPod

Search Menu	The content is organized by groups. Touch the ✎ on the screen to access the search menu. Once in search menu, select one of the group types from the menu, then select an item in that group. For example: • Select the Artist group and the display will change to a list of available artists. Then select an artist from this list to hear some or all songs from that artist. • Select the Song group to hear all songs.
Return/Back	Touch the 🔲 on-screen button to go back to a previous menu. For example, when browsing songs from a particular artist in Artist group mode, touch 🔲 to return to the list of all available artists.
Page Up/Down	When there are more than 6 songs in a given group, the Page Up and Page Down on-screen buttons can be used to see the rest of the songs in the current group. Then use the Direct Select method to play a song from that group. The Page Up and Page Down on-screen buttons can be used to preview the next/previous pages. **Note:** The Page Up/Down buttons will not select a song, but simply display more songs in the group. If another song is not selected within 10 seconds of the last press then the screen will return to the currently playing song/group.
Song Select	From the remote control: Press ▶▶ to skip to the next song. Press ◀◀ to return to the beginning of the current song. A second press will skip to the previous song.
Direct Select	To select a desired song from the song list, touch any of the displayed songs in the list. From the remote control: When the correct song is highlighted press **OK**.
Song Control	You can use the Fast Forward and Fast Reverse on-screen buttons to play a song forwards or backwards at a higher speed. Touch the same button a second time or press Play to return to normal playback. From the remote control: Press ▶▶ to fast forward. Press ◀◀ to fast reverse.
Intro Mode	Touch **INT** on the screen to listen to all songs in the current group for 10 seconds at a time, starting from the next track. **Intro** will appear next to the **MENU** button while this feature is activated. Touch **INT** again to exit Intro Mode.
Random Mode	Touch **RDM** to shuffle the songs in the current group. **Random** will appear next to the **MENU** button while this feature is activated. Touch **RDM** again to exit Random Mode.

60

Operation of iPod

Repeat Mode

Touch **RPT** to repeat a song. **Repeat** will appear next to the **MENU** button while this feature is activated. Touch **RPT** again to exit 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.)

Play/Pause

Press **PLAY/PAUSE** to temporarily stop playback of the current song. Press it again will resume playback.

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

High Speed Search

Press and hold ⏪ or ⏩ to quickly advance up or down when searching. The rate of advancement will increase the longer the button is pressed.

Playing Music Files

1. Touch 📁 icon to access the search menu.
2. Touch **Music**, then select desired category.

Selecting Music By:
Playlists
Artists
Albums
Genres
Songs
Composers
Audiobooks
Podcasts

Operation of iPod

Playing Video Files

1. Touch ☐ icon to access the search menu.
2. Touch **Video**, then select desired video.

Video Controls

Touch Area C to select the previous chapter and Area D to select the next chapter. **Note:** Not all movies support this feature.

Touch Area A to return to the search menu.

From the front panel:
Press ▶▶ to skip to the next chapter.
Press ◀◀ to skip to the previous chapter.

From the remote control:
Press ▶▶ to skip to the next chapter.
Press ◀◀ to skip to the previous chapter.

Press ▶▶ to fast forward. Press ◀◀ to fast reverse.

Notes: It is not possible to view videos or photos on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction. Video/photo functions will only operate when vehicle is in Park and the parking brake is engaged as described on page 32.

Operation of iPod

Viewing Photos

1. Touch ▱ icon to access the search menu.
2. Touch **Photo**, then begin slideshow from your iPod device.

Photo Controls   Touch Area A to return to the search menu.

Notes   Character support – only alphanumeric characters can be displayed on the secondary LCD (ASCII type).

The Video and Photo modes are not supported when using the 1st and 2nd generation iPod Nano.

Device Compatibility   Compatible with
• iPod touch (2nd generation)
• iPod nano (4th generation)
• iPod classic
• iPod touch (1st generation)
• iPod nano (3rd generation)
• iPod nano (2nd generation)
• iPod with video
• iPod nano (1st generation)

Auxiliary Inputs – A/V 1 & A/V 2

Using A/V1 Input
Connect an optional audio/video source into the 3.5mm (front panel) input.

Select AV/1 from the Main Menu to listen to audio.

Engage parking brake as described on page 32 to watch video.

Adjust volume on the external audio source as needed (if connected to the headphone output).

Using A/V2 Input
Connect an optional audio/video source to the Auxiliary Input 2 (Red/White/Yellow RCA connectors). Refer to page 6 for details.

Select AV/2 from the Main Menu to listen to audio.

Engage parking brake as described on page 32 to watch video.

Rear Camera Operation – (Optional)

Using Rear Camera
Connect an optional rear camera to the Camera Input (Black RCA connector). Refer to page 6 for details.

The camera image can be reversed (if needed) in the Main Setup Menu. Refer to page 19 for details.

Manual selection – Touch CAMERA icon from the Main Menu to select camera mode. Touch the top left area on the screen to exit camera mode.

Auto Selection
The unit will automatically select camera mode when connected to the reverse lamp circuitry. Refer to page 6 for details. Anytime the reverse gear is selected, the panel will open and select camera mode automatically.

Bluetooth® – OSD Overview (Optional)
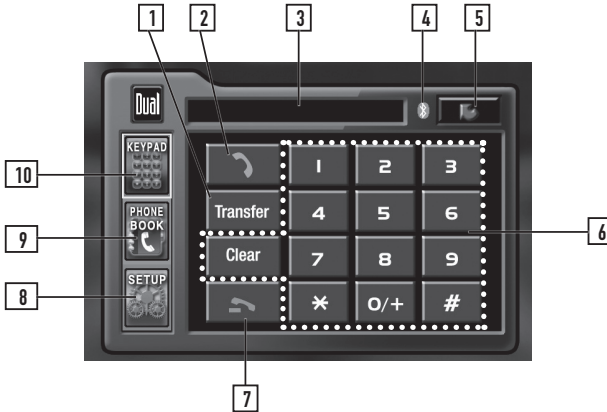
Before using Bluetooth	Make sure the Bluetooth option is set to On in the Bluetooth Setup menu.
Bluetooth Mode	From the main menu, touch the **Bluetooth** icon on the screen. A Bluetooth icon will appear anytime a Bluetooth device is connected.
1	**Audio Transfer Button** Press to transfer audio between the head unit and mobile phone.
2	**Talk button** Press to answer an incoming call or to place an outgoing call.
3	**Display Indicator** Phone number display and call status indicator.
4	**Bluetooth status indicator** When Bluetooth is On and a Bluetooth device is being paired, the indicator will flash. When Bluetooth is On and a phone is connected to the unit, the indicator will illuminate steady.
5	**Return button** Touch to **RETURN** to exit.
6	**Keypad interface** Press 0-9, *, # and + to enter desired phone number. Press Clear to clear the last digit.
7	**End button** Press to end a call in progress or to reject an incoming call.
8	**Setup Menu Icon** Press to access Bluetooth setup menu.

65

Bluetooth® – OSD Overview (Optional)

9	Phone book Icon
	Press to access the phone book menu.

10	Keypad Interface Icon
	Press to display the keypad interface.

Bluetooth Setup Menu

Dual	Bluetooth Setup		
KEYPAD	Bluetooth	On	
	Search	No	
PHONE BOOK	Device	LTH-6539	
	Connect	Auto	
SETUP	Auto Answer	Off	
	Bluetooth MIC	Internal	
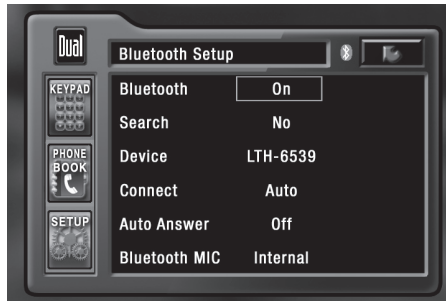
Bluetooth Setup Menu matrix

Settings	Default	Options	Function
Bluetooth	On	Off	Turns off the Bluetooth functionality and resets the device list
		On	Turns on the Bluetooth functionality
Search	No	No	Press Yes to begin the search/pairing process. Press No to cancel the search/pairing process. See page 67 for more details.
		Yes	
Device	Not Paired	Device Names	When connected, the current Bluetooth device name will be displayed. Press the device name to display a list of available devices that can be connected.
Connect	Auto	Manual	You must connect the phone to the head unit manually each time
		Auto	The head unit will automatically connect to the last connected device. See page 67 for more details.
Auto Answer	Off	Off	You must press the Talk button to answer an incoming call
		On	All incoming calls will be automatically answered
Bluetooth MIC	Internal	Internal	The hands-free audio will use the built-in microphone
		External	The hands-free audio will use the external microphone

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 Bluetooth device to make hands-free calls or stream audio, 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.
Search For Device Step 1	Access Bluetooth setup menu, make sure Bluetooth is set to On and press **Search - Yes** to begin the pairing process. The head unit will display the device name "**DUAL BT**" and the Pin "**1234**" 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 "**DUAL BT**". During the pairing process, the Bluetooth icon will flash. After the pairing process has completed, and the device is connected, the Bluetooth icon will illuminate steady.
Device List	To connect to a previously connected device, press the current device name. Any previously connected devices that are in range will be listed by their device name. Press the desired device name to disconnect from the current device and connect to the new device.
	This head unit can remember the last 8 paired mobile devices. It is only possible to connect to one Bluetooth mobile device at a time.
	When pairing to more than 8 mobile devices, the head unit will delete the device that was used the least. The mobile device that is last connected will always be remembered by default.
Notes	It is possible to search for previously connected Bluetooth devices from this head unit. It may be possible to search for this head unit from other Bluetooth devices. It is also possible to disconnect this head unit from other devices.
Connect	The head unit will automatically connect to the last connected 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 device. Set the Connect feature to **Manual** when you do not want to connect to any Bluetooth device.
Auto Answer	The head unit will automatically answer incoming calls when the Auto Answer feature is set to **On**. If the Auto Answer feature is set to Off, the Talk button must be pressed to answer an incoming call.
Bluetooth MIC	The head unit includes a built-in microphone for hands-free calling. As an option, the included external microphone can be used. Set the Bluetooth MIC to **External** to use the external microphone. Refer to page 7 for details on installing the microphone.

Bluetooth® – Operation (Optional)

Phone Book Menu

Incoming Call Screen

Dual	**Dual**
BT Phone Book	1234567890
KEYPAD	KEYPAD
1 DIALED CALLS	**Incoming Call**
PHONE BOOK	Thomas Industries
2 RECEIVED CALLS	Ringing
SETUP	PHONE BOOK
3 MISSED CALLS	SETUP Handset

Dialed Calls	Press Dialed Calls to retrieve the list of dialed calls from the mobile device. Touch the desired number to call. Press the page up/down buttons to navigate through the pages.
Received Calls	Press Received Calls to retrieve the list of received calls from the mobile device. Touch the desired number to call. Press the page up/down buttons to navigate through the pages.
Missed Calls	Press Missed Calls to retrieve the list of missed calls from the mobile device. Touch the desired number 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 several different ways: 1. Enter the desired phone number using the on-screen keypad, then touch the Talk icon. 2. Enter the desired phone number using the numeric keypad on the remote control, then touch the Talk icon. 3. When the panel is closed, press Talk, enter the desired phone number using the numeric keypad on the remote control, then press Talk. 4. 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. Pressing the Talk icon on-screen or pressing the Talk button on the front panel can be used to answer an incoming call. During an incoming call, the audio is muted for the current source and the incoming call screen will be displayed. Adjust the volume during the call using the volume control.
Ending a Phone Call	Press the End icon on screen or the End button on the front panel to end a call in progress or to reject an incoming call.
Notes	It is not possible to hear navigation voice guidance when using Bluetooth to make a hands-free phone call. Voice guidance will resume once the call is ended.

Bluetooth® – Streaming Audio (Optional)

| 1 | 2 | 3 |

Bluetooth Audio Mode

The XDVDN9131 supports A2DP wireless streaming audio from your Bluetooth mobile device directly to your head unit. You can also control your music from the front panel of the head unit using AVRCP.

Before Using Streaming Audio

Make sure the Bluetooth option is set to On in the Bluetooth Setup menu and your device is paired and connected as described on page 67.

To stream music to your head unit, your mobile device must support the following Bluetooth profiles:
• A2DP profile to stream audio.
• AVRCP profile to control your music. Check the owner's manual or manufacturer of your device for compatibility.
• Streaming audio must be enabled from your mobile device. This option will vary depending on the device. Example: "wireless stereo."

Streaming Audio

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

From the mobile device, start the music player and enable streaming audio. Press **Play/Pause** on the front panel. The head unit will display the Audio Stream mode.

1   Track Down
        Touch ◄◄ to return to the beginning of the previous song.

2   Play/Pause
        Touch ▶/❚ to temporarily stop or resume playback.

3   Track Up
        Touch ►► to skip ahead to the next song.

Stop

Press ■ on the remote control to stop playback.

Notes

• A2DP and AVRCP operation may not be supported on every mobile device.
• On some mobile devices, it may be necessary to control the music from the device.
• On some mobile devices, audio streaming may begin automatically when connected or when the device or the XDVDN9131 is powered off/on. Refer to the owner's manual of your mobile device for more information.

Navigation
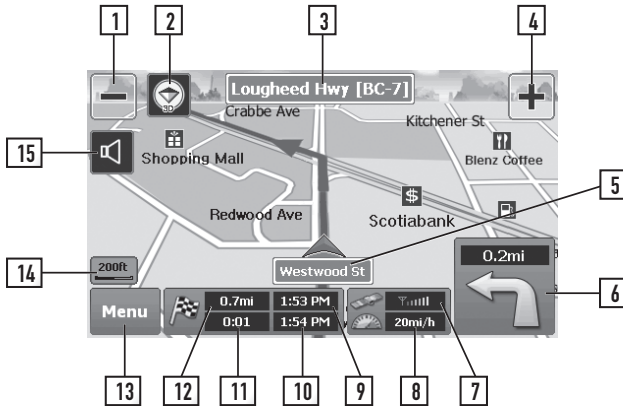
Navigation Mode

From the main menu, touch the **NAVI** icon on the screen or press the **NAVI** button on the front panel. The image above shows the map screen features when in guidance mode. Descriptions of each item are as follows:

1)   Zoom out: Zooming out from level 1 to level 21

2)   Compass: By tapping this icon, you can change the map display mode to **Track up**, **North up**, or **3D** View. (Refer to **Settings**>**Map View** for more information)

3)   Next street name

4)   Zoom in: Zooming in from level 21 to level 1

5)   Current street name

6)   Turn-by-Turn instruction: Indicates next guidance information (Tap this icon to go to Turn-by-Turn screen)

7)   GPS signal reception: Tap this icon to go to GPS Status/information page

8)   Current speed

9)   Current time

10)   Expected time to arrive at destination

11)   Remaining travel time from current position to destination

12)   Remaining travel distance from current position to destination (To go to **Route Summary** page, tap anywhere from 9-12)

13)   Menu button: Tap to go to **Menu**

14)   Map scale: Indicates current map scale level

15)   Voice guidance repeat button: Repeats the last voice instruction

Navigation

Turn-by-Turn Screen

FDR Drive [Battery Pk]
0.5mi

FDR Dr SVC Rd W

167ft

◄ Back   ☰ List   ✕ Close

Route Summary Screen

📍 22 Cortlandt St, Manhattan, NY ; 212-227-9092

Total Distance	5.9mi
Total Time	09 min
Distance Remaining	3ft
Time Remaining	0:00
Expected Arrival Time	7:20 PM
Fuel Cost	$ 0.84

Faster Time

Shorter Distance

Avoidances

◄ Back   ✕ Close
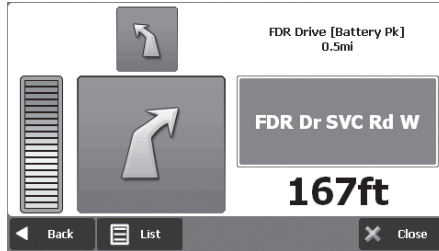
Navigation Main Menu

The main menu can be accessed by pressing the **MENU** button on the map screen. Descriptions of each button are as follows:

▢ ⣿ Menu

Where to?

My Route

Clear route

Settings

◄ Back
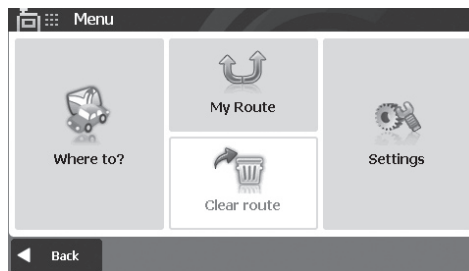
Where to?
My Route
Clear route
Settings

Allows you to search for a location in various ways.
Provides editing of the current route or retrieving the current route information.
Stops route guidance and removes all existing locations from route.
Allows you to customize navigation system settings.

71

Navigation

Press **Where To?** to easily search for a location in various ways according to your purpose or preference.
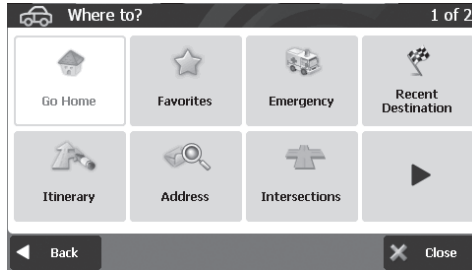
Go Home	Favorites	Emergency	Recent Destination
Itinerary	Address	Intersections	▶

Where to?   1 of 2

◀ Back   ✕ Close

Go Home   Hotkey for route guidance to your home location (saved in your Favorites list).
Favorites   Search for locations saved to your Favorites list.
Emergency   Hotkey for quickly searching the nearest emergency points of interest from your current position without entering any additional information.
Recent Destination   Recalls a list of recently traveled destinations.
Itinerary   Allows you to create or edit itineraries.
Address   Search for destination by address.
Intersections   Search for destination by intersections.
▶   Go to page 2.

Where to?   2 of 2
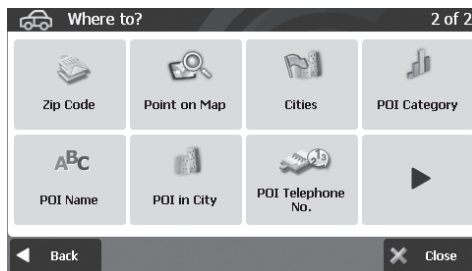
Zip Code	Point on Map	Cities	POI Category
POI Name	POI in City	POI Telephone No.	▶

◀ Back   ✕ Close

Zip Code   Search for locations by zip code.
Point on Map   Search for locations by pointing directly on the map.
Cities   Search for the center of a city or town.
POI Category   Search for points of interest by category around your current location.
POI Name   Search for points of interest by point of interest name.
POI in City   Search for points of interest by category in a certain city.
POI Telephone No.   Search for points of interest by telephone number.
▶   Go to page 1.

Navigation

How to plan your first route

1. Press Menu, Where To?, then Address

Your current position (and direction) is indicated on the map by the red arrow ▲ .
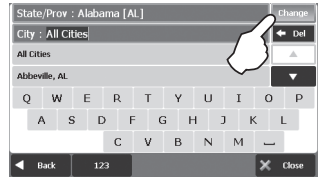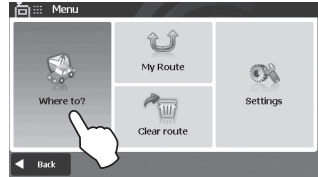
For your convenience, previously searched state/province name and city name are initially selected on the first stage of address search. If you want to change state/province, tap **Change**. For State/Province search, you can search by either the full name (e.g. New York), or abbreviation (e.g. NY).

2. Search for a City Name
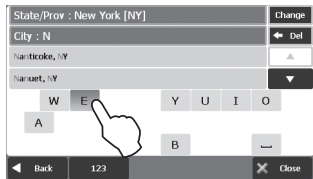
Type letters and/or choose from the list of results (only valid next letters appear). Tap **123** to access numbers. Tap Back to return to the previous screen.

3. Search for a Street Name
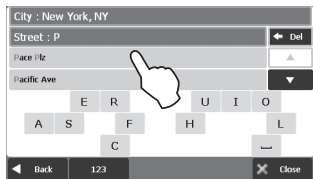
Type letters and/or choose from the list of results (only valid next letters appear).

4. Enter House number
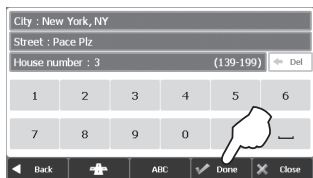
Reconfirm the city, and street, then enter the house number and tap **Done**.

The final destination will appear, tap **Done** to calculate the route and proceed.

73

Navigation

My Route

My Route allows you to create a new route or to edit an existing route. Create Route / Edit Route buttons will change depending on situation.

Create Route   Available if a route has not been set.
Edit Route   Available if a route has already been set. Use this option to edit your existing route.
Detour   Allows you to avoid part of the route, a roadblock, or to set a travel via point.
Simulation Mode   Starts a driving simulation of the route.
Route Summary   Displays the route summary page.
Map Mode   Displays the full map of your route.
Turn-by-Turn   Displays simplified guidance mode with no map.

Settings
Page 1 of 3

Settings allows you to customize the settings of the Navigation system.

Color Mode   You can set the color mode of map as **Day**, **Night** or **Auto** mode. **Auto** mode allows the navigation system to automatically choose day or night mode based on the current system time.
Map View   You can change the view of map display mode as **Track up**, **North up**, or **3D View**.
Set Brightness   You can adjust the map brightness of day and night modes.
Map Colors   You can change the map colors.
Auto Zoom   You can set the automatic zooming at intersection and/or on speed.
Home   You can set or change your home location.
Label on Map   You can turn on/off displaying various labels on the map.
▶   Go to page 2.

Navigation

Settings
Page 2 of 3

Settings allows you to customize the settings of the Navigation system.
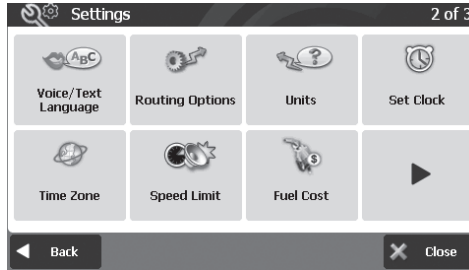
Voice/Text Language
Routing Options
Units
Set Clock
Time Zone
Speed Limit

Fuel Cost
▶

Change voice/text language of navigation.
Change routing options.
Change distance units (Miles or Kilometers).
Set time and apply options such as **Daylight Saving** and **Sync. with GPS** time.
Select time zone.
Turn on/off the speed warning and set a tolerance level for receiving a warning alert. For example, set tolerance level as 2 mph to receive a warning when speed limit is exceeded by 2 mph.
Adjust fuel prices and consumption.
Go to page 3.

Settings
Page 3 of 3
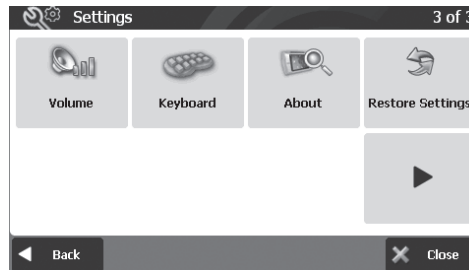
Volume
Keyboard
About
Restore Settings
▶

Adjust the volume and link the volume to car speed.
Change keyboard options.
Shows product name and version.
Restore all settings to system defaults.
Back to page 1.

Please visit www.dualav.com for the latest version of the full-length owner's manual. Please visit www.gogonav.com for map updates.

75

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.

2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.

3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.

4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

   • Call us toll-free at 1-866-382-5476
   • E-mail us at cs@dualav.com

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77

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11) GOVERNING LAW: This EULA shall be governed by the laws of the state of California, USA. The United Nations Convention on Contract for the international Sale of Goods is hereby excluded in its entirety from application to this Agreement.

Specifications

Disc	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: **15dBf** Stereo separation @ 1kHz: **35dB** Frequency response: **30Hz-11kHz**
AM Tuner	Tuning range: **530kHz-1710kHz** Usable sensitivity: **26uV** Frequency response: **30Hz-2.2kHz**
USB	Compatibility: **Full Speed USB 1.1** Output: **5VDC, 500mA**
Bluetooth	Compatibility: **Version 2.0 + EDR** Supported Profiles: **HFP, A2DP, ACVRP**
Monitor	Panel size: **7" (177.8 mm) diagonal measurement** View angle (up/down/left/right): **40/65/65/65** Resolution: **480 W x 234 H** Brightness (cd/m^2): **350** Contrast ratio: **300:1** Elements: **336,960**
General	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~20kHz)

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)

79

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(s)
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuse(s)	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuses 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 32
No navigation, SD or rear camera video output	Video output is not supported for navigation mode, SD mode or rear camera input	Choose Tuner, Disc, operation of iPod, USB, A/V 1 or A/V 2 source to display video output
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
Invalid Disc appears on display or ERROR 2 flashes on LCD	Focus error Disc is in upside down Disc type/content is not compatible	Press **REL** to open the front panel, then press eject. If the problem persists, press RESET located behind the front panel as described on page 11.
Invalid Region appears on display or Wrong Region flashes on LCD	Region code error	Use only DVD's labeled "Region 1" or "All" only.
Monitor will not open/close	Monitor travel path obstructed	Remove the obstacle and press **OPEN** to resume the monitor open/close sequence.

Troubleshooting

Bluetooth		
Problem	**Cause**	**Action**
"Please connect first" is displayed when the Talk button is pressed	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 67
Mobile device will not connect to the head unit	Bluetooth function is not active on the head unit	Activate Bluetooth function as described on page 66
	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
	The time limit for pairing the mobile device has been reached	Pair the mobile device within 60 seconds
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 66
Ring tone can not be heard through the speakers	Volume is turned down	Increase the volume during the ringing process
	MUTE function is activated on the head unit	Press MUTE to cancel the mute function and resume audio
Echo or noise is heard during a phone call	Possible road noise or interior interference	Close all open windows and turn off any fans or A/C
	Microphone opening on the front panel is obstructed	Clear any obstacles in front of microphone opening
Call is connected (but no audio can be heard through the speakers)	Audio is routed to the mobile device	Press Transfer to allow audio from the phone to be heard through the speakers
	Volume is turned down	Increase the volume
Call is connected (but other party can not hear audio)	Bluetooth MIC is set to external, but no external mic is connected	Set Bluetooth MIC to internal as described on page 66, or install and connect external mic as described on page 7
	External mic is connected to the wrong input (blue) 3.5mm connector	Connect external mic to the correct (black) 3.5mm connector
Call is answered automatically	Auto Answer function is set to On	Set Auto Answer function to Off as described on page 66
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

Troubleshooting

Navigation		
Problem	**Cause**	**Action**
No voice guidance	Left front speaker is not connected	Check speaker connection at left front speaker
	Navi volume is turned down	Increase the Navi volume as described on page 10
	Main volume is Muted	Increase the Main volume
	Bluetooth call is in progress	Voice guidance is not available during a Bluetooth phone call
"Acquiring GPS satellites. Please wait a moment." appears on display. (No GPS signal)	The GPS antenna is not connected	**Check GPS antenna connection**
	The GPS antenna cable is damaged	Check for pinched or cut antenna cable
	The GPS signal is blocked (such as inside a tunnel or garage)	Make sure the antenna has an unobstructed view of the sky
	The GPS signal can not be established	Reset GPS module by entering the GPS information page as described on page 70 and press **RESET**
"The Navigation program cannot start because the license is invalid" message appears on display	The map software license is missing or expired	Please call Dual Customer Service for assistance 1-866-382-5476

For Your Records | Please keep your original sales receipt and be prepared to provide this receipt in the event you require service, as your original receipt is considered the best proof of purchase and indicates the date you purchased your Dual product.

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