XDVD8130

INSTALLATION/OWNER'S MANUAL

DVD Multimedia Receiver with 2.5" TFT Display

DVD VIDEO ™

DOLBY DIGITAL

COMPACT disc RECORDABLE REWRITABLE

iplug™

MP3

Plays Windows™ Media™

Dual audio·video ®

Safety Note:

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

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DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8130 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 XDVD8130 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

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 XDVD8130 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

Safety Notes:

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

To prevent damage or injury:

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

Additional notes:

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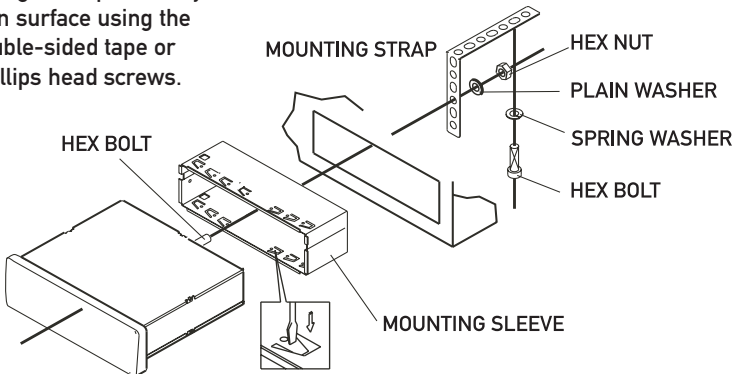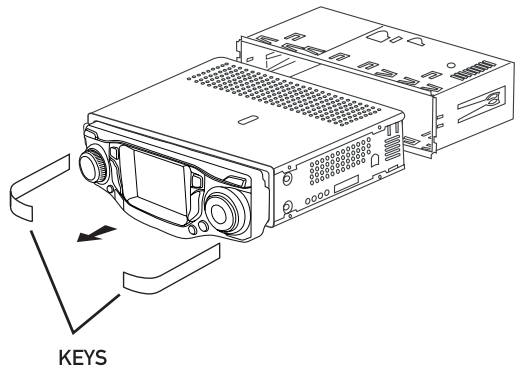
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Preparation

Please read entire manual before installation.

Before You Start
• Disconnect negative battery terminal. Consult a qualified technician for instructions.
• Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.
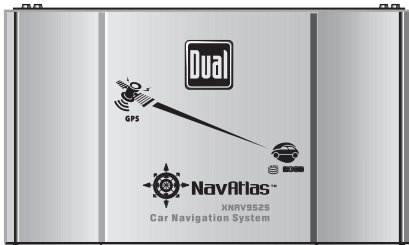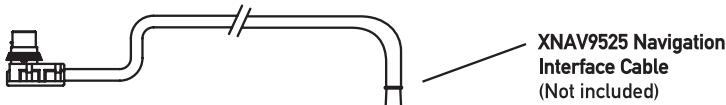
Getting Started
• Remove trim ring from unit.
• Insert the supplied keys into the slots as shown, and slide the unit out of the mounting sleeve.
• Install mounting sleeve into opening, bending tabs to secure.
• Connect wiring harness and antenna as shown on pages 5-6. Consult a qualified technician if you are unsure.
• Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
• Test for correct operation and slide into mounting sleeve to secure.
• Snap trim ring into place.
• Mount the iplug™ adapter to any smooth clean surface using the supplied double-sided tape or #2 x 3/8" Phillips head screws.

KEYS

MOUNTING STRAP   HEX NUT

PLAIN WASHER

SPRING WASHER

HEX BOLT   HEX BOLT

MOUNTING SLEEVE

TYPICAL FRONT-LOAD DIN MOUNTING METHOD

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Wiring Diagram - Inputs/Outputs

Reverse Lamp Connection
White/Brown (+)

AM/FM Antenna Input

GREEN
Video Output/Camera Input
Yellow - Video Output
Black - Camera Input (V3)

RED
A/V 2 Input
Red - Audio Right
White - Audio Left
Yellow - Video Input

BLUE
Non-Fading Preamp Output
Black - Audio (Mono)
Black - Audio (Mono)

YELLOW
A/V 1 Input
Red - Audio Right
White - Audio Left
Yellow - Video Input

BLACK
Front Preamp Output
Red - Audio Right
White - Audio Left

GRAY
Digital Output
Blue - Audio

Power/Speaker/
Rear Preamp Output
Connections

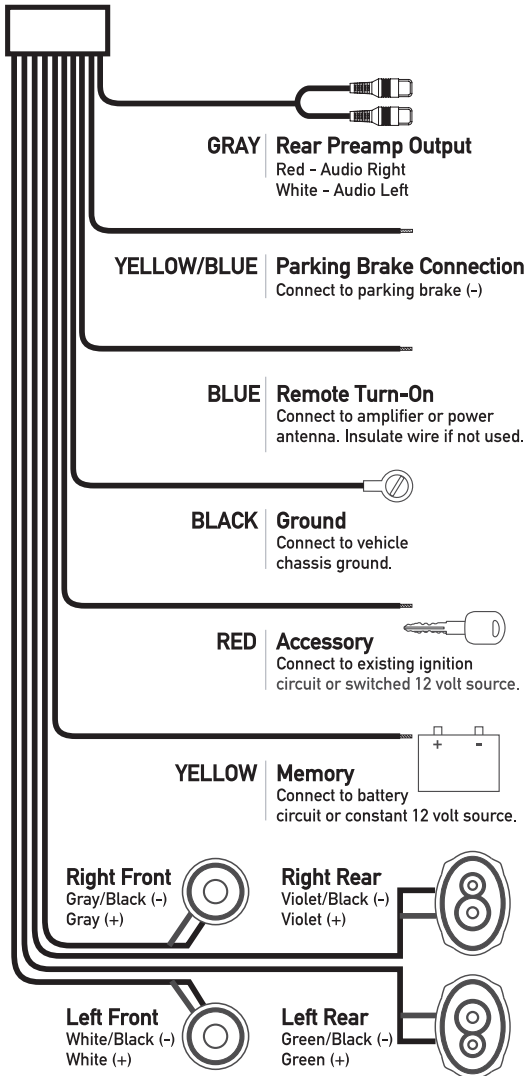**XNAV9525 Navigation**
Interface Cable
(Not included)

FUSE

When replacing the fuse, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio. The XDVD8130 uses one 10 amp ATM fuse located beside the wiring connector.

XNAV9525 20GB Navigation System (Sold separately - not included)

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Wiring Diagram - Power/Speakers

Wiring Notes:

Connecting the parking brake lead (Yellow/Blue -)

The Yellow/Blue lead MUST be connected for the in-dash monitor to operate properly. 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. This wire must be connected in accordance with all local, state and federal laws in your area.

Connecting the reverse lamp lead (White/Brown +)

The White/Brown lead connects to the vehicle reverse lamp circuit (optional). When reverse gear is selected, the unit will automatically switch to V3 mode and display the image on screen. This will allow the driver to view images from a back-up camera (optional) connected to the dedicated V3 camera input.
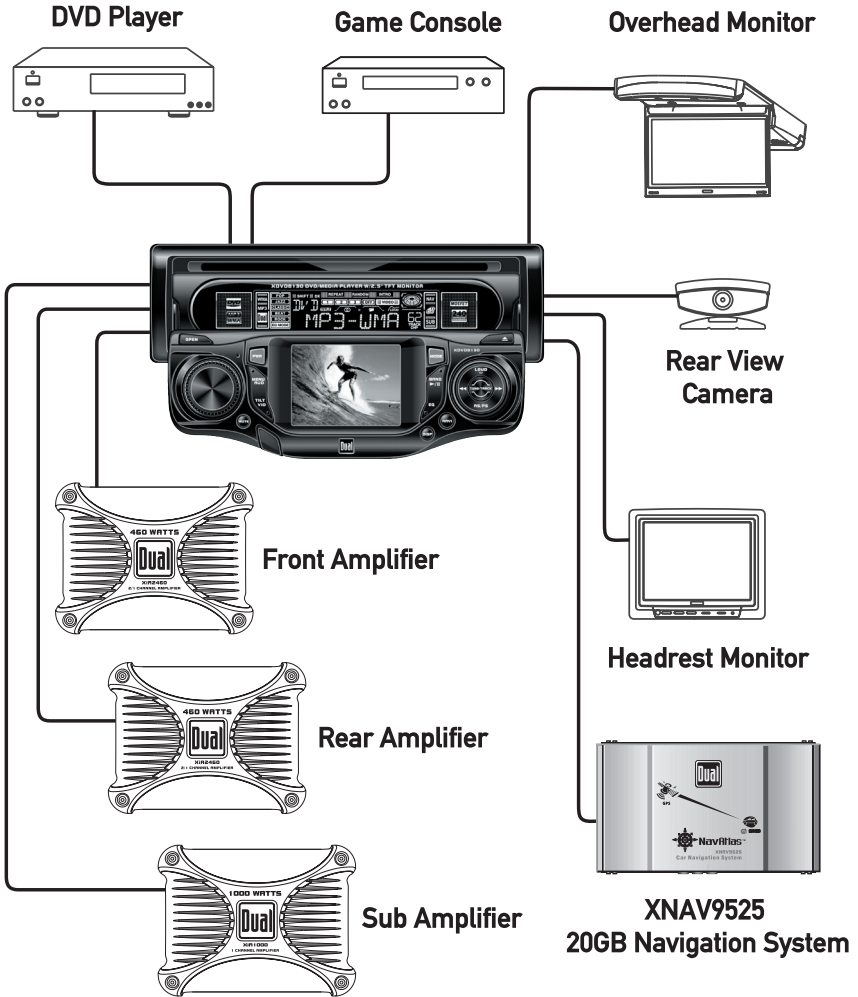
Speaker Connections

Do not connect any speaker leads to chassis ground or each other as severe damage will occur. Use 4 ohm speakers with a 60 watt (minimum) power rating only.

Fuses

When replacing a fuse, make sure new fuse is the correct type and amperage. Using an incorrect fuse could damage the unit. To prevent accidental shorts, insulate any unused wires.

GRAY | **Rear Preamp Output**
Red – Audio Right
White – Audio Left

YELLOW/BLUE | **Parking Brake Connection**
Connect to parking brake (–)

BLUE | **Remote Turn-On**
Connect to amplifier or power antenna. Insulate wire if not used.

BLACK | **Ground**
Connect to vehicle chassis ground.

RED | **Accessory**
Connect to existing ignition circuit or switched 12 volt source.

YELLOW | **Memory**
Connect to battery circuit or constant 12 volt source.

Right Front
Gray/Black (–)
Gray (+)

Right Rear
Violet/Black (–)
Violet (+)

Left Front
White/Black (–)
White (+)

Left Rear
Green/Black (–)
Green (+)

Wiring Diagram - Optional A/V Connections

DVD Player

Game Console

Overhead Monitor

Rear View Camera

Front Amplifier

Headrest Monitor

Rear Amplifier

Sub Amplifier

XNAV9525 20GB Navigation System

The diagram above illustrates the connection capabilities of the XDVD8130. Two separate Audio/Video inputs allow the connection of a DVD player or game console. The video output provides signal to external monitors - such as an overhead or headrest type. A rear view camera can be connected to provide assistance when backing up your vehicle. Visit your local DUAL dealer for more details.

* All items shown above are optional and sold separately.

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Control Locations - Receiver

|			
① Open		⑪ Eject	
② Rotary Volume		⑫ Tune/Track Up	
③ Reset		⑬ Auto Store/Preset Scan	
④ Power		⑭ Navigation Mode	
⑤ Menu/Audio		⑮ EQ	
⑥ TFT LCD		⑯ Display	
⑦ Band/Play/Pause		⑰ Infrared Sensor	
⑧ Mode		⑱ Tilt Control/Video Mode	
⑨ Tune/Track Down		⑲ Mute	
⑩ Loudness/Sub On/Off			

Caution
- Due to its highly technological design, the XDVD8130 faceplate is NOT removable. Do not attempt to remove the faceplate.
- This model incorporates a motorized moving monitor. Before final installation, make sure the monitor will not obstruct the dash or shifter.
- Upon installation, do not attempt to move the monitor by hand. Use the **OPEN** button on the faceplate only.

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Control Locations - Remote

Mode Select
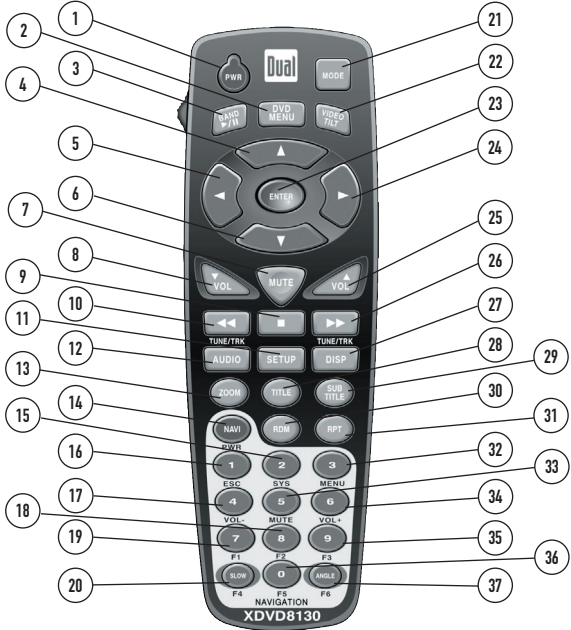
#	Function	#	Function	#	Function
1	XDVD8130 Power	14	XNAV9525 Power*	26	Tune/Track/Chapter Up
2	DVD Menu	15	Preset #2/System*	27	Display
3	Band/Play/Pause	16	Preset #1/Escape*	28	Title
4	4-Way Up	17	Preset #4/Volume Down*	29	Subtitle
5	4-Way Left	18	Key #8/Function 2*	30	Random
6	4-Way Down	19	Key #7/Function 1*	31	Repeat
7	Mute	20	Slow/Function 4*	32	Preset #3/Menu*
8	Volume Down	21	Mode	33	Preset #5/Mute*
9	Stop	22	Tilt Control/Video Mode	34	Preset #6/Volume Up*
10	Tune/Track/Chapter Down	23	Enter	35	Key #9/Function 3*
11	Setup	24	4-Way Right	36	Key #0/Function 5*
12	Audio	25	Volume Up	37	Angle/Function 6*
13	Zoom				

* Dedicated DUAL XNAV9525 functions

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General Operation

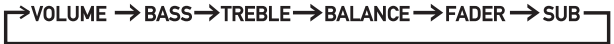|	
Power On/Off	Press **PWR** or any other button (except **EJECT** or **OPEN**) to turn the unit on. Inserting a disc will turn the unit on automatically. Press **PWR** to turn the unit off.
Reset	Press **RESET** the unit upon initial installation or if abnormal operation occurs. Refer to page 8 for the reset button location.
Mode	Press **MODE** to select between tuner, DVD player and auxiliary input. Modes of operation are indicated in the display.
Video (AUX)	Press **VID** to select between OFF, AV1, AV2 and V3 modes. Modes of operation are indicated in the display. The auxiliary A/V inputs can be selected from any mode (except DVD mode). This allows video to be displayed while listening to the AM/FM tuner (only when the vehicle is in Park and the parking brake is applied), for instance.
Notes	• The vehicle must be in park and the parking brake applied to view video on the in-dash monitor. • As a safety feature, "**Picture Off For Your Safety**" will appear on the display for 5 seconds anytime the vehicle's parking brake is not engaged. DVD, AV1 and AV2 audio can be heard while the vehicle is in motion. • The video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Refer to local laws in your area.
Tilt Control (monitor angle)	The angle of the monitor can be adjusted to provide the best view. To adjust, press **TILT** for more than 2 seconds. "Tilt Cont" will momentarily appear in the TFT display. Use the rotary encoder or the **VOL ▲ ▼** buttons to adjust the angle. If the tilt is not adjusted for 5 seconds, the unit will return to normal operation.
Volume	Adjust volume using rotary encoder or the **VOL ▲ ▼** buttons (00-46).

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General Operation

Programmable Turn-On Volume
Press and hold **PWR** for 3 seconds to program currently selected volume level. "ON VOL" and the current volume level will momentarily appear in the display. The unit will return to this volume level anytime the unit turned on.

Loudness
Press **LOUD** to activate and deactivate loudness contour curve.

Subwoofer Output
Press and hold **LOUD** ☟ for more than 2 seconds to activate the subwoofer output. The SUB icon will illuminate in the display anytime the subwoofer output is active.

Preset EQ Curves
Press **EQ** to select between POP, JAZZ, CLASSIC, BEAT, ROCK and OFF (default) equalization curves. Any adjustment to the Bass or Treble settings automatically cancels the current EQ curve (if one is selected).

Display
Press **DISP** to select between clock and radio frequency (tuner mode), clock and playback information (CD/MP3/WMA mode), or clock and AUX (AUX mode). Press and hold **DISP** for more than 2 seconds to select between clock and playback information (DVD mode).

Set the Clock
With the unit on, press and hold **DISP** until clock begins to flash, then release. Press ◄◄ to adjust the hours and ►► to adjust the minutes. Press **DISP** momentarily to save the selected time. The clock can not be set in DVD mode.

12/24-hour Clock
The clock will display 12-hour AM/PM time in USA frequency spacing mode (PM 10:00). In European frequency spacing mode, the clock will display 24-hour time (22:00).

Programmable Display Priority
Press and hold **DISP** then press ►► to select function display priority (default). "FUNC" will momentarily appear in the display. Radio frequency, disc playback information, or AUX is displayed by default. The clock is accessed by pressing **DISP** momentarily.

Press and hold **DISP** then press ◄◄ to select time display priority. "TIME" will momentarily appear in the display. Clock will be displayed by default. Radio frequency, disc playback information, or AUX is displayed by pressing **DISP** momentarily.

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General Operation – Audio Settings

Audio Adjustments	Press **AUD** to select between Volume (default), Bass, Treble, Balance, Fader & Subwoofer (if activated). →VOLUME → BASS → TREBLE → BALANCE → FADER → SUB ⌐
Bass	Press **AUD** until **BAS** appears Rotate encoder left/right or use the **VOL ▲ ▼** to adjust (-6 minimum / +6 maximum)
Treble	Press **AUD** until **TRE** appears Rotate encoder left/right or use the **VOL ▲ ▼** to adjust (-6 minimum / +6 maximum)
Balance	Press **AUD** until **BAL** appears Rotate encoder left/right or use the **VOL ▲ ▼** to adjust (BALL.12-BAL 00-BALR.12) BAL 00 represents equal balance
Fader	Press **AUD** until **FAD** appears Rotate encoder left/right or use the **VOL ▲ ▼** to adjust (FADF.12-FAD 00-FADR.12) FAD 00 represents equal fader.
Subwoofer Output Level (When activated)	Press **AUD** until **SUB** appears Rotate encoder left/right or use the **VOL ▲ ▼** to adjust (00 minimum / 12 maximum) Default output level is SUB 06.
Source Audio Memory	Individual Bass and Treble settings are retained in memory for AM, FM, DVD and AUX modes. This allows you to save the Bass and Treble settings separately for each mode. **Example:** FM tuner mode can have Bass +3 and Treble -1 while DVD mode can have Bass +2 and Treble +2. **Note:** Any adjustment to the Bass or Treble settings automatically cancels the current EQ curve (if one is selected).
Mute	Press **MUTE** to silence the audio. "MUTE" will flash in the display. Press **MUTE** or another button (except **OPEN** or **EJECT**) to cancel.

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General Operation – Setup Menu

Audio/Video Menu	Press **MENU/AUD** for more than 3 seconds to access the Audio/Video setup menu and adjust the following settings:

Beep – Rear View – Bright – Contrast – Color – Tint – SCR Saver ⌐

Bass C-Freq. – Bass Q-Factor – Treble C-Freq. – Freq. OSD

Beep Confirmation	Press **MENU/AUD** until **Beep** appears. Rotate encoder to turn the confirmation beep on or off.
Rear View Image	Press **MENU/AUD** until **Rear View** appears. Rotate encoder to select the V3 input to be mirrored (On) or normal (Off).
TFT Brightness	Press **MENU/AUD** until **Bright** appears. Rotate encoder to adjust (01 minimum / 30 maximum).
TFT Contrast	Press **MENU/AUD** until **Contrast** appears. Rotate encoder to adjust (01 minimum / 30 maximum).
TFT Color	Press **MENU/AUD** until **Color** appears. Rotate encoder to adjust (01 minimum / 30 maximum).
TFT Tint	Press **MENU/AUD** until **Tint** appears. Rotate encoder to adjust (01 minimum / 30 maximum).
Note	Color and Tint adjustments only affect AV1 and AV2 auxiliary inputs.
TFT Screen Saver	Press **MENU/AUD** until **SCR Saver** appears. Rotate encoder to turn the screen saver on or off.
Bass Control Center Frequency	Press **MENU/AUD** until **Bass C-Freq.** appears. Rotate encoder to select between 60Hz, 80Hz, 100Hz or 200Hz.
Bass Control Q-Factor	Press **MENU/AUD** until **Bass Q-Factor** appears. Rotate encoder to select between 1, 1.25, 1.5 or 2.
Treble Control Center Frequency	Press **MENU/AUD** until **Treble C-Freq.** appears. Rotate encoder to select between 10kHz, 12.5kHz, 15kHz or 17.5kHz.
Tuner Frequency OSD	Press **MENU/AUD** until **Freq. OSD** appears. Rotate encoder to select turn the frequency OSD on or off.

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AM/FM Tuner Operation

Seek Tuning	Press **TUNE ◄◄** or **TUNE ►►** momentarily to seek the next strong station.
Manual Tuning	Press **TUNE ◄◄** or **TUNE ►►** for more than 2 seconds, then release. "MANU" will momentarily appear in the display. Press **TUNE ◄◄** or **TUNE ►►** momentarily to move radio frequency up or down one step at a time. Press and hold to advance quickly. If tuning is not adjusted for 5 seconds, the unit will return to seek tuning mode (default) and "AUTO" will momentarily appear in the display.
Band	Press **BAND** to select between FM1, FM2, FM3 and AM1, AM2 bands.
Frequency Spacing	Press and hold **BAND** then press **TUNE ◄◄** to select European frequency spacing. Press and hold **BAND** then press **TUNE ►►** to select USA frequency spacing (default).
Storing and Recalling Station Presets	Up to 18 FM stations and 12 AM stations can be stored. To store a station, select the desired band and station. Press and hold the desired preset button (1-6) on the remote control for more than 2 seconds. When stored, the preset number will appear in the display. The station can be recalled anytime by pressing the corresponding preset button on the remote control.
Automatically Store Stations	Press **AS/PS** for more than 2 seconds to automatically store the six strongest stations in the current band. Automatic Local tuning is activated during the initial band scan.
Preset Scan	Press **AS/PS** for less than 2 seconds to scan presets 1-6 on the current band, pausing for 5 seconds at each. Press **AS/PS** again to cancel.

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DVD Setup Menu

Access DVD Setup Menu With a disc inserted, press **SETUP** to access DVD setup menu. Press ◄ or ► to select between menu pages and ▲/▼/◄/► to adjust settings and or levels. When selectable, the menu item will be highlighted in blue. The current setting is indicated by a ►.

Press **ENTER** to select/confirm each setting.

Exit Setup Menu Press **SETUP** to save settings and exit the setup menu. Press ►/❚❚ to save settings and return to DVD playback.

Notes Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD8130 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

Language Setup Page Press ◄ or ► to select **LANGUAGE** setup page and ▼ to select options.

OSD Menu Language Press ▲ or ▼ to select your desired OSD menu language.

Disc Audio Press ▲ or ▼ to select your desired disc audio language.

Disc Subtitle Press ▲ or ▼ to select your desired disc subtitle language.

Disc Menu Press ▲ or ▼ to select your desired disc menu language.

Language Setup Page
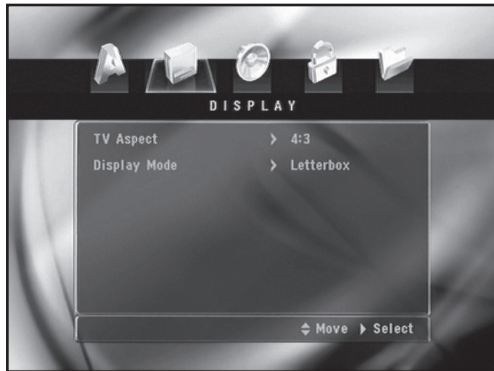
General Operation - DVD Setup Menu

Display Setup Page | Press ◄ or ► to select **DISPLAY** setup page and ▼ to select options.

TV Aspect | Press ▲ or ▼ to select 4:3 or 16:9. This option also affects the composite video output signal.

Display Mode | Press ▲ or ▼ to select **Letterbox** or **Panscan**. This option is only available when the aspect ratio is set to 4:3.
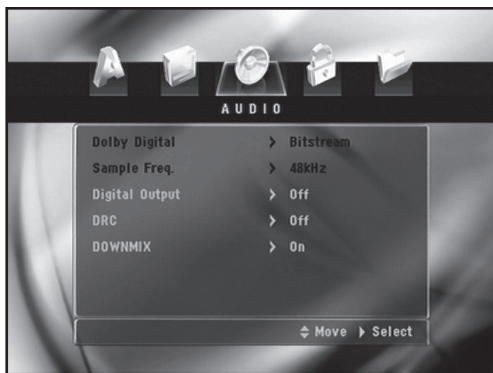
Display Setup Page

General Operation - DVD Setup Menu

Audio Setup Page Press ◀ or ▶ to select **AUDIO** setup page and ▼ to select options.

Dolby Digital Press ▲ or ▼ to select **Bitstream** or **PCM**. This option is only available when the Digital Output is turned on.

Sample Freq. Press ▲ or ▼ to select **48kHz** or **96kHz** sampling frequency. This option is only available when the Digital Output is turned on.

Digital Output Press ▲ or ▼ to select **On** or **Off**. The Digital Output must be turned on to select the Dolby Digital and Sampling Frequencies.

DRC (Dynamic Range Compression) Press ▲ or ▼ to select **On** or **Off**.

Downmix Press ▲ or ▼ to select **On** or **Off**.

Audio Setup Page

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DVD Setup Menu

<u>Lock Setup Page</u>	Press ◄ or ► to select **LOCK** setup page and ▼ to select options.
Rating **(Parental Control)**	Press ▲ or ▼ to select desired parental control level (default setting is **Unlock**). The **Unlock** setting provides no parental control. After a password is set, a password is required to change the parental controls setting. See below for details.
Password **(Initial Setup)**	Press ▲ or ▼ to select **New**. Enter a 4-digit password and press **ENTER**. Enter the 4-digit password again and press **ENTER** to **VERIFY** the password.
Password **(Change Password)**	Press ▲ or ▼ to select **Change**. Enter the current 4-digit password and press **ENTER**. Enter a new 4-digit password and press **ENTER**. Enter the 4-digit password again and press **ENTER** to **VERIFY** the new password.
Country Code	Press ▲ or ▼ to select **County Code**. A password is required to change the County Code. Enter the current password and press **ENTER** to confirm. If there is no stored password, enter a 4-digit password and press **ENTER**.

<u>Lock Setup Page</u>

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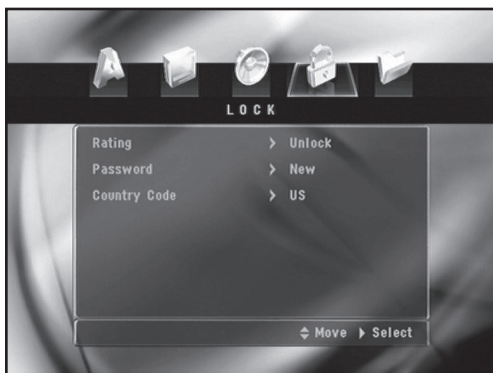
DVD Setup Menu

Others Setup Page

Press ◄ or ► to select **OTHERS** setup page and ▼ to select options.
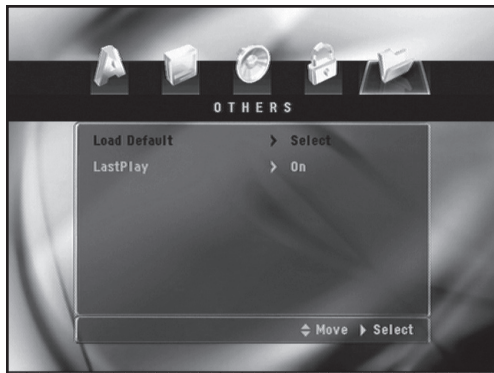
Load Default (Factory Settings)

Press ► to load default factory settings. The DVD must be fully stopped before loading the default factory settings. See page 20 for details.

Last Play

Press ▲ or ▼ to select **On** or **Off**. Selecting **Last Play On** will remember the DVD playback position (for up to 10 DVDs) after the DVD has been ejected and re-inserted.

Others Setup Page

DVD Operation

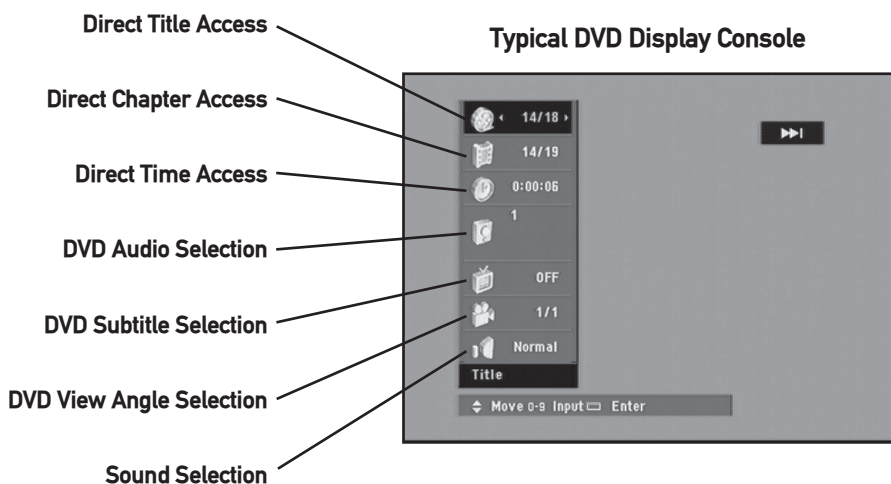|	
Insert Disc	Press **EJECT** to allow the rear panel to slide down. With the label facing up, insert a disc at least half way into the disc slot. The disc will auto-load and the rear panel will close. Some discs will play automatically when inserted.
Eject Disc	Press **EJECT** to allow the rear panel to slide down and eject the disc. If the disc is not removed within 10 seconds, the unit will reload the disc automatically. The unit does not have to be turned on.
Playback Start	In general, pressing ▶/❚❚ or **ENTER** will start disc playback. Some discs will play automatically when inserted. "⊘" may appear on the display during operation. "⊘"means that feature or operation is not permitted by the DVD player at this time.
Playback Stop	Press ■ momentarily. The unit will return to the start-up logo and display ❚❚ ■. If ▶/❚❚ is pressed, the unit will resume operation from the last position in memory.
Playback Full Stop	Press ■ two times. The unit will return to the start-up logo and display ■. If ▶/❚❚ is pressed, the unit will resume operation from the beginning of the disc.
Pause	Press ▶/❚❚ to temporarily stop playback. Press ▶/❚❚ to resume playback.
Chapter Select	Press ▶▶ to skip to the beginning of the next chapter. Press ◀◀ to return to the beginning of the current chapter. Pressing ◀◀ again skips to the beginning of the previous chapter.
Fast Forward and Reverse	Press ◀◀ or ▶▶ for more than 2 seconds to fast forward or fast reverse in 2, 4, 16 and 100 times modes. Press ▶/❚❚ to cancel fast forward or fast reverse. There is no audio output during the fast forward or reverse modes.

DVD Operation

Slow	Press **SLOW** to activate slow playback. Slow playback speed includes I▶ 1/32, 1/16, 1/8, 1/4, and 1/2. Press ▶/❚❚ to resume normal playback. There is no audio output during slow playback mode.
Zoom	Press **ZOOM** to increase the image size from 400% to 1600%. Press ▲/▼/◀/▶ while zooming to scroll the image.
Repeat	Press **RPT** once to repeat the current chapter. Press **RPT** twice to repeat the current title. Press **RPT** again to cancel repeat function.
DVD Main Menu	Press **DVD MENU** to select DVD main menu (root menu). Press ▲/▼/◀/▶ to select between menu settings and **ENTER** to select/confirm.
Title Menu	Press **TITLE** to show available titles. Press ▲/▼/◀/▶ to select between titles and **ENTER** to select/confirm.
Selecting DVD Audio Language	Press **AUDIO** while playing to switch between available audio languages.
Selecting DVD Subtitle Language	Press **SUBTITLE** while playing to switch between available subtitle languages.
Selecting DVD View Angles	Press **ANGLE** while playing to switch between available viewing angles.

Notes:
The audio language, subtitle language and view angle features are only available when they are included on the disc. The language and subtitle functions may not work with some discs and they may require some time when selecting between them.

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DVD Operation

DVD Display Console	Press **DISP** to access the DVD display console. Highlight desired menu item using ▲ or ▼.
Direct Title Access	Press ◄ or ► to select desired title and press **ENTER** to select/confirm.
Direct Chapter Access	Press ◄ or ► to select desired chapter and press **ENTER** to select/confirm.
Optional Direct Title/ Chapter Select Method	Enter desired title/chapter using the 1~0 buttons on the remote.
Direct Time Access	Enter desired time using the 1~0 buttons on the remote and press **ENTER** to select/confirm.
DVD Audio Language	Press ◄ or ► to select desired disc audio language.
DVD Subtitle Language	Press ◄ or ► to select desired disc subtitle language.
DVD View Angle	Press ◄ or ► to select desired disc angle.
Sound	Press ◄ or ► to select between **NORMAL** or **3D SURROUND**.

Typical DVD Display Console

Direct Title Access

Direct Chapter Access

Direct Time Access

DVD Audio Selection

DVD Subtitle Selection

DVD View Angle Selection

Sound Selection

CD Operation

Play	Insert a standard size CD into the disc slot. The CD will automatically begin playback when inserted. The currently playing track is shown in blue and highlighted in black.
Stop	Press ■ momentarily; the unit will stop and display ▐▐ ■. Press ▶/▐▐ to resume operation from the last position in memory.
Full Stop	Press ■ two times; the unit will stop and display ■. Press ▶/▐▐ to resume operation from the beginning of the disc.
Pause	Press ▶/▐▐ to temporarily stop playback. Press ▶/▐▐ to resume playback.
Track Select	Press ▶▶ to skip to the beginning of the next track. Press ◀◀ to return to the beginning of the current track. Pressing ◀◀ again skips to the beginning of the previous track.
Optional Track Select Method	Press ▲/▼ to select desired track and press **ENTER** to select/confirm.
Direct Track Access	Enter the desired track using the 1~0 buttons on the remote.
Fast Forward and Reverse	Press ◀◀ or ▶▶ for more than 2 seconds to fast forward or fast reverse in 2, 4, and 8 times modes. Press ▶/▐▐ to cancel fast forward or fast reverse.
Track Repeat	Press **RPT** to repeat the current track. Press **RPT** again to cancel repeat function.
Track Random	Press **RDM** to play all tracks in random order. Press **RDM** again to cancel. Random mode is retained in memory when selecting between modes and when the unit is turned on/off.
Note	**Last Play On** must be selected to retain Random mode. See page 19 for details.

CD Operation

|	
Program Play	Press ▲ or ▼ to select desired track; press ▶ to highlight the additions/deletions column.
	Press to add a single track to the Program playlist. Press **ENTER** to confirm.
	Press to add all tracks to the Program playlist. Press **ENTER** to confirm.
	Press to delete a single track from the Program playlist. Press **ENTER** to confirm.
	Press to delete all tracks from the Program playlist. Press **ENTER** to confirm.
Start Program Play	Press ▶ to highlight the Program playlist. Select desired starting track and press **ENTER** to start Program play.

Typical CD Playback Mode

Program Playlist

Normal Playlist

Program Modifiers
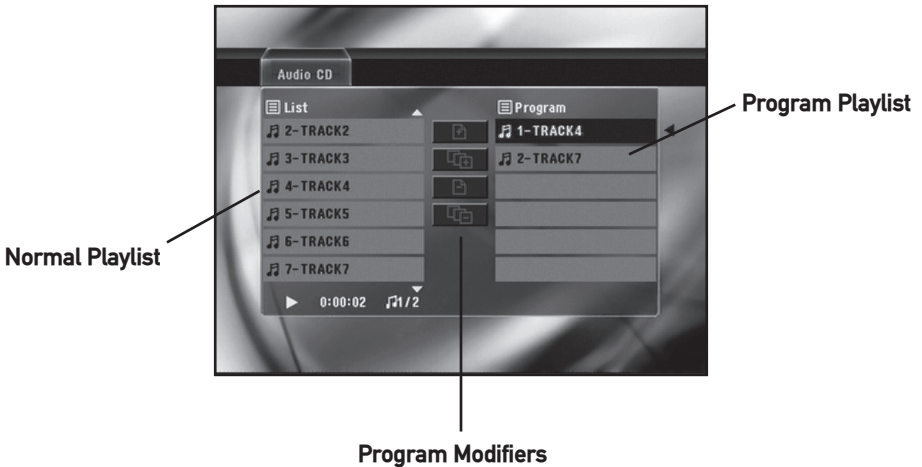
MP3/WMA Operation

|	
Playing an MP3/WMA disc	When an MP3/WMA encoded disc is first inserted, playback will automatically begin with the first file in the root folder or first folder (if there are no files in the root folder).
	The current folder/filename information is displayed at the bottom of the screen.
	MP3/WMA operation is similar to normal CD operation. See page 23 for details.
↰..	Press to navigate up one level.
Folder/File Repeat	Press **RPT** for more than 2 seconds to repeat the current folder. Press **RPT** again to repeat the current file. Press **RPT** again to cancel repeat function.
Track Random	Press **RDM** to play all files in the current folder in random order. Press **RDM** again to cancel. Random mode is retained in memory when selecting between modes and when the unit is turned on/off.
Note	**Last Play On** must be selected to retain Random mode. See page 19 for details.

Typical MP3/WMA Playback Mode

Program Playlist

MP3/WMA Playlist

Current file/folder information

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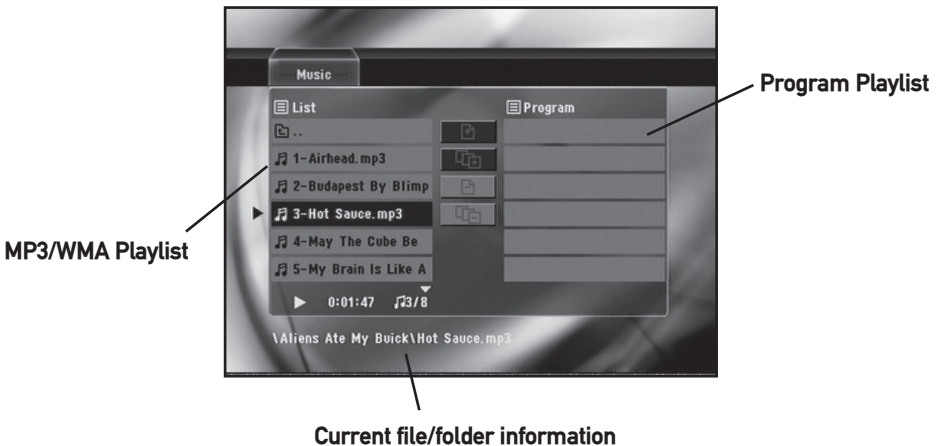
DVD/MP3/WMA Information

Media Compatibility

The following types of discs/files are compatible:
- CD-ROM (ISO), CD-R, CD-RW, DVD+R/RW, DVD-R/RW
- CD-DA , DVD Video
- MP3 data
- WMA data

The following types of discs/files are not compatible:
- WMA files that are protected by DRM (Digital Rights Management).
- WMA lossless format
- Discs recorded with Track At Once or packet writing
- MP3 PRO format
- MP3 playlists
- WAV format
- WMV format
- JPG format
- DivX format
- AVI format
- MPG format

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

Playback Order

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

Compatible Recording Formats

- ISO9660 level 1
- ISO9660 level 2
- Yellow Book MODE 1
- Yellow Book MODE 2 FORM 1
- Multi session
- Maximum files - 199
- Maximum folder levels - 8
- MPEG-1/2 Audio Layer-3

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DVD/MP3/WMA Information

Additional MP3/WMA Information	An internal buffer provides ESP (Electronic Skip Protection) to virtually eliminate skipping. When playing a disc recorded with regular audio files (CD-DA or .WAV) and MP3/WMA files, the unit will play the MP3/WMA files only. Only MP3 files with filename extension (.mp3) can be played. Only WMA files with filename extension (.wma) can be played. Do not attempt to play discs which contain non-MP3/WMA files with the MP3/WMA extension.
Sampling Frequency Rates **MP3**	32kHz ~ 48kHz
WMA	32kHz ~ 48kHz
Transfer Bit rates **MP3**	40kbps ~ 320kbps constant Variable bit rates
WMA	40kbps ~ 192 kbps constant Variable bit rates
Notes	Some files may not play or be displayed correctly, depending on sampling rates and bit rates. When playing discs recorded with both .mp3 and .wma files, only the MP3 icon and "MP3" will be shown in the rear LCD.
MP3/WMA Tag Display	This model will not display MP3/WMA tag information.
Recommended Settings	For best results, use the following settings when burning an MP3 disc: 128kbps or higher constant bit rate 44.1kHz or higher sampling frequency For best results, use the following settings when burning a WMA disc: 64kbps or higher constant bit rate 32kHz or higher sampling frequency

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Navigation/Auxiliary Input Modes

NAVI Mode

Press **NAVI** to select navigation mode (only available when connected to the XNAV9525 navigation system). The voice guidance and MP3 audio is routed to the left front channel by default. When a voice command is executed, the audio will mute to allow the voice command to be heard.

Press **NAVI** for more than 2 seconds to select between viewing the navigation map and current video source. This option allows the navigation to operate while viewing the CD, MP3 or WMA OSD menu.

The voice guidance and MP3 audio can be routed to all channels if desired. Press and hold **NAVI**, then press **LOUD** to select between the left front and all channels. "ALL CH" will momentarily appear in the display. Refer to the XNAV9525 owner's manual for more information.

AUX Mode

Select **AUX** mode first using the **MODE** button. Press **VID** to select between OFF, AV1, AV2 and V3 modes. Modes of operation are indicated in the display.

Selecting **OFF** turns off the TFT display (if the Screen Saver is also turned off). See page 13 for details.

Notes

• The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
• As a safety feature, "**Picture Off For Your Safety**" will appear on the display for 5 seconds anytime the vehicle's parking brake is not engaged. AV1 and AV2 audio can be heard while the vehicle is in motion.

External Video Output

The selected AV source can be viewed on an external monitor (sold separately).

V3 CAM (Rear Camera Input)

When reverse gear is selected (and the White/Brown lead is connected to the reverse lamp circuit), the XDVD8130 will automatically select V3 mode to allow the driver to monitor a video camera (sold separately) connected to the V3 input.

The V3 image can be displayed normal or mirrored. See page 13 for more details.

Limited One Year Warranty

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

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

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

Who is covered? This warranty is extended to the original retail purchaser for products purchased 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: 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.

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

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

Troubleshooting

Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuse	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
Unit has audio (but no video)	Parking brake safety circuit not connected Parking brake not applied	Check connections at parking brake Apply parking brake
No subwoofer output or low subwoofer output	Subwoofer mode is not active Subwoofer output level is turned down	Activate subwoofer mode - see page 11 Increase subwoofer output level
No V3 video display (when in reverse)	Reverse circuit not connected Vehicle is not in reverse	Check connections at reverse lamp Select reverse gear
IR remote does not work	Dead batteries Remote set to control wrong model	Replace batteries Select XDVD8130 - see page 9
Excessive skipping	Unit is not mounted correctly or backstrap is not secure	Check mounting sleeve and backstrap support
	Physical defect in media	Check media for scratches
ERROR-01 appears on display	Disc mechanism error	Press eject or RESET
ERROR-02 appears on display	Focus error or disc is in upside down	Press eject or RESET
ERROR-03 appears on display	Region code error	Use only DVDs labeled "Region 1" or "All" only
Unit will not accept a disc	Disc mechanism position out of alignment	Press EJECT for 3 seconds to reset disc mechanism position
	Disc mechanism transit screws still in place	Remove 2 transit screws located on top of the unit

Copyright Notes

Specifications

DVD Player

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

FM Tuner

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

AM Tuner

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

Monitor

Panel size: **2.5˝ (63.5 mm) diagonal measurement**
View angle (up/down/left/right): **15/40/50/50**
Resolution: **480 x R.G.B x 234**
Brightness (cd/m^2): **250**
Contrast ratio: **150:1**
Elements: **336.960**

General

Operating voltage: **11–16 VDC, negative ground**
Speaker output impedance: **4~8 ohms**
Line output voltage: **2 Volts**
Line output impedance: **200 ohms**
Chassis dimensions: **7" x 6.5" x 2"**
                                     (178 x 165 x 51 mm)
Faceplate dimensions: **6.69" x 1.25" x 2.38"**
                                     (170 x 32 x 60 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)

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