

XDVD1170 INSTALLATION/OWNER'S MANUAL DVD Multimedia Receiver with 7" Touch Screen Display



Safety Notes:

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

Copyright Notes

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A WARNING A

- 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 ("Pink 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 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.



A 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 XDVD1170 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 9 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

- 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 as shown on page 6. 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, and test for correct operation.
- Snap trim ring into place (if required).
- Slide unit into mounting sleeve to secure.



TYPICAL FRONT-LOAD DIN MOUNTING METHOD



Wiring Diagram - Inputs/Outputs



Wiring Notes:

Subwoofer output

The Subwoofer preamp audio output (black jacket with green RCA) is active in all audio modes.

Rear camera input

A rear view camera (not included) can be used with the Camera input. Refer to page 35 for details.

Connecting an iPod/iPhone device

To play music from an iPod/iPhone device, connect the included iPod connection cable to the XDVD1170. Once connected, playback will begin automatically.

Note:

When replacing a fuse, make sure to use the correct type and amperage. Using an incorrect fuse could damage the unit. The XDVD1170 uses (1) 15 amp ATC mini style fuse located on the back of the unit.



Control Locations





Notes: Remove battery insulation tape . • The remote control uses one 3 volt Lithium CR2025 battery. Remove the battery if the remote will not be used for a month or longer. ULL • 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. Remove the battery from the battery holder. Keep the battery (+) a up Install the new battery. Make sure to keep the (+) side up. Insert the battery holder .

Remote Control Preparation



General Operation

Power / Open	Momentarily press \bullet to turn the unit on. Press and hold \bullet for 2 seconds to turn the unit off. When the unit is on, pressing \bullet will open or close the monitor.
Volume	Rotate the volume knob to increase or decrease the volume level (0-39).
Volume Memory	If the volume level is <21 when the unit is turned off, it will be retained in memory the next time the unit is turned on. If the volume level is >20 when the unit is turned off, the volume level will automatically default to 20 the next time the unit is turned on.
Mute	Momentarily press MUTE to silence the audio. Momentarily press MUTE again to return to the previously selected volume. Rotating the volume knob while the volume is muted will also cancel the mute function.
Mode	Press MODE to step through all available input modes: Tuner, Disc (which includes DVD and CD playback), iPod, SD, USB, AV1 and AV2. Modes of operation are indicated on the display and/or the monitor. Optional iPod device, USB flash drive and SD card must be connected/inserted to appear in the mode selection string.
Reset	To resolve abnormal operation or if the unit is inoperable, use the tip of a pen to press the RESET button. The unit will reset the main processor to the default settings.
3.5mm A/V Input	Connect external audio/video devices to the 3.5mm auxiliary A/V input on the front panel.
USB Port	Connect a USB device to play MP3/WMA files or view JPG photos. The XDVD1170's USB port supports USB playback only. To connect a phone or other device for charging, use the USB port on the back of the unit.
Main Menu	When the monitor is open, press the arrow in the top right corner to access the Main Menu screen.
	So So <td< td=""></td<>
	 View/select any operational mode by touching the corresponding icon.

- View/select any operational mode by touching the corresponding icon.
- Enter standby mode by pressing STANDBY.
- Use the up and down arrows to adjust the angle of the screen
- Select SETUP to enter the Setup menu.



General Operation

Setup Menu From the Main Menu screen, press SETUP in the bottom left corner to access the Setup menu. Select one of the seven icons across the top (General, Time, Language, Audio, Video, Tuner and Calibration) to access the sub-menu for that category. Use the up and down arrow keys on the right to scroll up and down through the available sub-menu options.

General

- Beep Select Off or On to disable or enable the audible beep.
- · Camera Select a Normal or Mirror image for camera input.

Time

- Time Press the current time to edit, then use the up and down arrows to change the hour and minute settings.
- Year Press the current year to edit, then use the up and down arrows to increase or decrease the value.
- Month Press the current month to edit, then use the up and down arrows to increase or decrease the value.
- Day Press the current day to edit, then use the up and down arrows to increase or decrease the value.

Language

Language - Select desired language (this option is available only on certain models).

Audio

- Subwoofer Turn the Subwoofer output On or Off.
- Loudness Turn the Loudness function On or Off.
- EQ Select from EQ options: Pop, Rock, Classic, Jazz or Off.

Video

- Aspect Ratio Select one of the following ratios: 4:3LB, 4:3PS or 16:9.
- Brightness Adjust the brightness level from 0-14 (default is 7).
- Contrast Adjust the contrast level from 0-14 (default is 7).
- Saturation Adjust the saturation level from 0-14 (default is 7).
- Hue Adjust the hue from 0-14 (default is 7).
- Standard Video Press "Yes" to reset video adjustments to default values.

Tuner

 Radio Region - Set the unit for one of the following regions: Europe, America 1, America 2, Japan or Russia,

Calibration

Calibration - Press SELECT to begin calibration of the touch screen.
 Press the center of the + as indicated on the screen to calibrate the touchscreen.



AM/FM Tuner Operation

(1)	2 3			4	5	
TUNE	R			66555 	_	
Concernance of the second			~			
		- -16	00 1		B	
~	AN		KHz	11		
1	530	2 600	3	1000	-	
4	1400	5 1710	6	540		(<u>6</u>)
MUTE	BAND	SEL AS/PS	LOUD	LØC	EQ	
MOTE	BAND	SEL AS/FS	LOOD	LOC		
			9	8	\mathbf{I}	
Tuner Operation						s MODE until Tuner Ition using the touch
		onitor; however, e of the radio wh				d using the buttons
Current Mode Indicator (1)	Displays c	urrent mode of	operation.			
Tune Frequency Down 2		mentarily to mai to the previous			frequency	y. Press and hold to
Information Display (3)	Displays ii	nformation such	as Loudne	ss and EQ	settings.	
Tune Frequency Up (4)		mentarily to mai to the next stroi		to a highe	r frequenc	:y. Press and hold to
Main Menu Access 🕤	Press to r	eturn to Main Me	enu screen.			
Preset Station Display 6		t station to play i				current band. Press AM stations can be
EQ ()	Press EQ or Off .	to step through t	he followin	g EQ optio	ons: Pop, R	lock, Classic, Jazz
Local (8)	options. Tl signals for distance to	he local option to r good reception	ines to neai . In areas w e unit to tur	rby radio s here rece	stations wi ption is po	e (LOC OFF) tuning ith sufficiently strong oor, switching to t stations. Distance
Loudness (9)	Press LOL	JD to turn the Lo	udness feat	ture On or	Off.	



AM/FM Tuner Operation

TUN	ER
<	© ⊚ ® K AM1 530 KHz ≫
1	530 2 600 3 1000 1400 5 1710 6 540
MÜTE	BAND SEL ASIPS LOUD LOC EQ 12 11 11
Automatically Store / Preset Scan (10)	Press and hold AS/PS to automatically find and store the strongest stations as presets. Press AS/PS momentarily to scan preset stations and play 10 seconds of each. Note: To manually save preset stations, tune to the desired station, then press and hold the desired preset number in the preset station display. The stored
Select (1)	preset station will appear next to the preset number when saved. Press SEL to access Audio and Video setup menus. Audio Setup
	 Volume - Adjust volume level from 0-39. Bass - Adjust bass level from -7 to 7. Treble - Adjust treble level from -7 to 7.
	 Balance - Adjust balance from Left (L07) to Right (R07); "00" represents equal balance. Fader - Adjust fader from Front (F07) to Rear (R07); "00" represents equal fader.
	 Video Setup Brightness - Adjust brightness level from 0-14 (7 is the default). Contrast - Adjust contrast level from 0-14 (7 is the default).
	 Saturation - Adjust saturation level from 0-14 (7 is the default). Hue - Adjust hue from 0-14 (7 is the default).
Band (12)	Press BAND to toggle between AM and FM frequency bands.
Mute (13)	Press MUTE to silence the radio. Press MUTE again to return to listening at the previously-selected volume.



CD Operation

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QD T	RK 3/223	CA	Ц.		Ð	
5 0	D PLAYER		TRACK TRACK		03:36 01:00	
			TRACK	60	01:00	
			TRACK	04	01:00	
			TRACK	05	01:00	
00:00:24	00:30:33		TRACK	06	01:00	
k l f	📢 🕨					
CD Operation	Insert disc into the	elot with th	o labol fa		at a clight	unward
	angle, and playback been inserted and th disc playback by sele pressing MODE until	k will begin 1e unit has b ecting the DI	automatic een opera ISC icon fr	ally. If a ting in a	disc has p nother mo	previously ode. resume
	The following instruct monitor; however, the face of the radio when	e tuner can a	lso be con	trolled u		
Current Mode Indicator $\textcircled{1}$	Displays current mo	de of operat	ion.			
Elapsed Time Indicator (2)	Displays the elapsed	l time of the	current tr	ack.		
Track Indicator \mathfrak{J}	Displays the current	and total nu	ımber of tı	acks or	the disc.	
Scroll Up / Down Arrows 4	Press to scroll up or	down the pa	ages in the	e track p	olaylist.	
Volume Indicator (5)	Displays the current	volume sett	ting of the	unit.		
CD Track List 6	Displays the first five and up through the e Elapsed time of curr	entire list, or	press a tr	ack nur	nber to pla	ay it instantly.
Main Menu Access (7)	Press to return to Ma	ain Menu sc	reen.			
Play / Pause 🛞	Press to pause CD. I	Press again	to resume	e CD pla	yback.	
Stop (9)	Press ■ to temporar from the current pos Press play to begin p	sition. Press	a secor	nd time t	o fully stop	



CD Operation

CD T RK 3/223 🗠 📢	SCD TRK 3/223 🖄 📢 SCD TRK 3/223 🌰 📢 SCD
	03:36 G CD PLAYER TRACK01 03:36 G CD PLAYER TRACK01 03:36
THACK02	01:00 TRACK02 01:00 TRACK02 01:00 TRACK02 01:00 TRACK03 01:00
TRACK04	01:00 TRACK04 01:00 TRACK04 01:00
	0100 TRACK05 01:00 TRACK05 01:00 TRACK05 01:00 TRACK06 01:00
(10)(11)(12)(13)(14)	(15) (16) (17) (18) (19) (20) (21)
Fast Reverse (11)	Press 4 to fast reverse CD playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.
Fast Forward (11)	Press 🍽 to fast forward CD playback. Each touch changes speed from 2x
0	to 4x to 8x to 16x to 20x then back to regular playback.
Previous Track (12)	Press to go back to the previous track.
Next Track (13)	Press to advance to the next track.
Volume / Audio Settings (14)	Press to display and adjust the current volume level from 0 to 39. Touch VOL to step through the following audio settings:
	• Bass- Adjust bass level from -7 to 7.
	• Treble - Adjust treble level from -7 to 7.
	 Balance - Adjust balance from Left (L07) to Right (R07); "00" represents equal balance.
	 Fader - Adjust fader from Front (F07) to Rear (R07); "00" represents equal fader.
Additional Options (15)	Press to access additional CD playback options.
Time Indicator (16)	Press to toggle from displaying the elapsed time to displaying the remaining time of the current track
	time of the current track.
Repeat (17)	Press to step through the Repeat options: RPT ONE (repeats current song), RPT ALL (repeats all songs on disc) and OFF .
Direct Track Access (18)	Press to access numeric keyboard to select desired track number. Input track number, press OK and playback of selected track will begin.
	track number, press ok and playback of selected track will begin.
Random (19)	Press to turn Random play ON or OFF .
Intro 测	Press to play the first 10 seconds of each song on the disc. Press again to return to sequential play.
TFT Screen (21)	Press to turn off the TFT display. Press anywhere on the touch screen to turn the display back on.



MP3/WMA/JPG Operation



Elapsed Time 7 Displays the ela



MP3/WMA/JPG Operation

	USB 5
[1/22] ČA
	Folder] Root File]OWL CITY - the saltwater room.MP3 7 - the saltwater room.MP3 OWL CIT D2:24 04:28
Additional Options (8)	Press to access additional playback options.
Volume / Audio Settings (9)	 Press to display and adjust the current volume level from 0 to 39. Touch VOL to step through the following audio settings: Bass- Adjust bass level from -7 to 7. Treble - Adjust treble level from -7 to 7. Balance - Adjust balance from Left (L07) to Right (R07); "00" represents equal balance. Fader - Adjust fader from Front (F07) to Rear (R07); "00" represents equal fader.
Next Track (10)	Press to advance to the next file.
Previous Track (1)	Press to go back to the previous file.
Fast Forward 🔃	Press ▶▶ to fast forward file playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.
Fast Reverse (13)	Press ◀ to fast reverse file playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.
Stop (14)	Press ■ to temporarily stop playback and return to the current folder menu.
Play / Pause (15)	Press to pause playback. Press again to resume playback.



MP3/WMA/JPG Operation



Additional Options (16)	Press to return to original OSD option display.
Direct Song Access (η)	Press to access numeric keyboard to select desired song number. Input song number, press OK and playback of selected song will begin.
TFT Screen (18)	Press to turn off the TFT display. Press anywhere on the touch screen to turn the display back on.
Repeat (19)	Press to step through the Repeat options: RPT ONE (repeats current song). RPT Folder (repeats all songs in current folder), RPT ALL (repeats all songs on device) and OFF .
Random (21)	Press to turn the Random function ON or OFF.



MP3/WMA/JPG Operation

XDVD1170 OPERATION

When viewing JPG images, press Area E to display on-screen JPG controls.



Viewing JPEG Images



Media Compatibility - USB/SD Card

File Type			WMA	MP3
Ella Contana	FAT FAT 12		Х	Х
File System	FAI	FAT 16/FAT 32	1	√
	.mp3/	/.MP3/.Mp3/.mP3	Х	✓
File Extension		.wma/.WMA	1	Х
LATENSION		.rmp/.m4a	Х	Х
		MPEG 1	Х	✓
MPEG Format		MPEG 2	Х	✓
rormat		MPEG 2.5	Х	✓
		MPEG 1	Х	32/44.1/48kHz
Sampling		MPEG 2	Х	12/16/22.05/24kHz
Frequency MPEG 2.5		MPEG 2.5	Х	8/11.025/12kHz
		WMA	32/44.1/48kHz	Х
	MPEG 1		Х	32 ~ 320kbps
	MPEG 2		Х	8 ~ 160kbps
Bitrate	MPEG 2.5		х	8 ~ 160kbps
	WMA		32 ~ 192kbps	Х
	Directory Depth		Unlimited	Unlimited
	File	e Name Length	32 bytes	32 bytes
	Total File Number		2000 files	2000 files
	Total Folder Number		200 folders	200 folders
Other Information	Filo Number via Folder		2000 files	2000 files
		ver.1.x	Х	✓
	MP3 ID3 TAG	ver.2.x	Х	✓
		Title, Artist, Album	Х	✓
	WMA TAG	Title, Artist	✓	Х

Notes:

• Due to ongoing technological advancement, some USB flash drives and/or SD cards may be incompatible with this unit.





Media Compatibility - CD/DVD

File Type			WMA	MP3	
	1500//0	Level 1, Level 2		✓	1
	IS09660	Lev	rel 3	Х	Х
	IS09660	101157	Playback	4	1
File System	Extension	JOLIET	Filename	32 bytes	32 bytes
			Playback	Х	Х
	Other Extensions	ROMEO	Filename	Х	Х
	Extensions	Appl	e ISO	Х	Х
	.mp3/	/.MP3/.Mp3/.n	וP3	Х	✓
File Extension		wma/.WMA		4	х
		.rmp/.m4a		Х	X
		MPEG 1		Х	✓
MPEG Format		MPEG 2		Х	✓
Format		MPEG 2.5		Х	✓
	MPEG 1		Х	32/44.1/48kHz	
Sampling	MPEG 2		Х	12/16/22.05/24kHz	
Frequency	MPEG 2.5		Х	8/11.025/12kHz	
		WMA		32/44.1/48kHz	Х
	MPEG 1		Х	32 ~ 320kbps	
	MPEG 2		Х	8 ~ 160kbps	
Bitrate		MPEG 2.5		Х	8 ~ 160kbps
		WMA		32 ~ 192kbps	Х
	Directory Depth			Unlimited	Unlimited
	File Name Length		32 bytes	32 bytes	
	Total File Number		2000 files	2000 files	
	Total Folder Number		200 folders	200 folders	
Other Information	File N	File Number via Folder		2000 files	2000 files
		ver	.1.x	Х	✓
	MP3 ID3 TAG	ver	.2.x	Х	✓
		Title, Arti	st, Album	Х	✓
	WMA TAG	Title, Artist		√	X



Media Compatibility

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 • WAV format • DivX, Xvid format • AVI 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 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.
Compatible Recording Formats	 IS09660 standards: Maximum nested folder depth is 8 (including the root folder). Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and "_" (underscore). Some characters may not be displayed correctly, depending on the character type. This device can play back discs in Joliet and other standards that conform to IS09660. 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



A WARNING A

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- 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 ("Pink 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 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 - 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 XDVD1170 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 XDVD1170 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

DVD Disc Symbols

6 - China



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

Notes:

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the XDVD1170 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

Symbol	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.
	Indicates the region code where the disc can be played. Region 1: USA Canada, Eart Pacific Ocean Islands Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East Region 3: Talwan, Hong Kong, South Korea, Thalland, Indonesia, South-East Asia Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania Region 5: Australia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia



DVD Setup - Parking Brake Initialization



- As a safety feature, a warning message will show on the display when the vehicle's parking brake is not engaged. Video display on the in-dash monitor isn't allowed until the PARKING BRAKE is engaged. Connect the pink 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.
- Parking Brake Initialization 1) Come to a complete stop, and put the vehicle in Park.
 - 2) Fully engage parking brake.



DVD Operation





DVD Operation

Next Chapter $\widehat{\eta}$	Press to advance to the next chapter.		
Previous Chapter (8)	Press to go back to the previous chapter.		
Fast Forward (9)	Press ▶▶ to fast forward DVD playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.		
Fast Reverse 🕕	Press ◀ to fast reverse DVD playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.		
Stop (1)	Press ■ to temporarily stop playback. Press play to resume playback from the current position. Press ■ a second time to fully stop playback. Press play to begin playback from the beginning of the DVD.		
Play / Pause 🔃	Press to pause playback. Press again to resume playback.		
Elapsed Time Indicator (13)	Shows the elapsed time of DVD playback.		
	DVD TT 1/2 CH 1/4 CK T DVD TT 1/2 CH 1/4 CK T UD UD TT 1/2 CH 1/4 CK T UD TT 1/2 CH 1/4 CK T T UD TT 1/2 CH 1/4 CK T T UD TT 1/2 CH 1/4 CK T T T UD TT 1/2 CH 1/4 CK T T T UD TT 1/2 T T T T T T		
Remaining Time $\widehat{14}$	Press to view the remaining time rather than the elapsed time (default).		
Language Options (15)	Press to select different language options (if available).		
Previous Folder 🕧	Press to return to the previous folder on the DVD (if available).		
Title Menu 🕧	Press to return to the title menu of the DVD.		
Repeat 🔞	Press to step through the Repeat options: CHAPTER. TITLE, RPT ALL and OFF.		
Subtitle Language (19)	Press to select desired subtitle language (if available): English, Spanish, French or Off.		
Direct Chapter Access 20	Press to access numeric keyboard to select desired chapter number. Input chapter number, press OK and playback of selected chapter will begin.		
Zoom (21)	Press to zoom in $(2x, 3x, 4x)$ or out $(1/2x, 1/3x, 1/4x)$ during DVD playback or turn the zoom feature off.		
TFT Screen 😰	Press to turn off the TFT display. Press anywhere on the touch screen to turn the display back on.		



Operation of iPod



Operation of iPod	Connect an iPod device using the supplied iPod connection cable to listen to music.	
	Playback can be controlled by either the XDVD1170's on-screen controls or directly from the iPod.	
	This model does not support video/photo playback.	
Current Mode Indicator (1)	Displays current mode of operation.	
Playback Information (2)	Displays information about current playback functions.	
Song Information ③	Displays information about the current song, including name, artist and album (if information is available).	
Main Menu (4)	Press to access main menu screen. During iPod playback, this button also serves as a return arrow to go up one level when navigating the music menu.	
Elapsed Time Indicator (5)	Displays both the elapsed and remaining time for playback of the current song.	



Operation of iPod

IPOD	5	
	PLAY C 1/860 20 [Dadonna] Girls Gone Wild.MP3 20 [Unknown Artist] 1 [Unknown Aibum] 02:48	
	9 -02:48 VOL 2 11 10 9 8 7 6	
Menu 6	 Press to return to the main menu. Press to display and adjust the current volume level from 0 to 39. Touch VOL to step through the following audio settings: Bass- Adjust bass level from -7 to 7. Treble - Adjust treble level from -7 to 7. Balance - Adjust balance from Left (L07) to Right (R07); "00" represents equal balance. Fader - Adjust fader from Front (F07) to Rear (R07); "00" represents equal fader. 	
Next Track ⑧ Previous Track ⑨	Press to advance to the next song. Press to go back to the previous song.	
Fast Forward 🔟	Press >> to fast forward file playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.	
Fast Reverse (1)	Press ◀◀ to fast reverse file playback. Each touch changes speed from 2x to 4x to 8x to 16x to 20x then back to regular playback.	
Play / Pause (12)	Press to pause playback. Press again to resume playback.	
Repeat (13)	Press to step through the Repeat options: RPT ONE (repeats current song), RPT Folder (repeats all songs in current folder), RPT ALL (repeats all songs on device) and OFF .	



Auxiliary Inputs - AV1 & AV2

Using AV1 Input	Connect an optional audio/video source into the 3.5mm (front panel) input.	
	Select AV1 from the Main Menu to listen to audio.	
	Engage parking brake as described on page 24 to watch video.	
	Adjust volume on the external audio source as needed (if connected to the headphone output of the device).	
Using AV2 Input	Connect an optional audio/video source to the Auxiliary Input 2 (Red/White/Yellow RCA connectors). Refer to page 6 for details.	
	Select AV2 from the Main Menu to listen to audio.	
	Engage parking brake as described on page 24 to watch video.	

Rear Camera Operation - (Optional)

Using Rear Camera

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

The unit will automatically select camera mode when connected to the reverse lamp circuitry. Refer to page 6 for details.



Limited One Year Warranty

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

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

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

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

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

What to do?

- Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
- If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.
- 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.



Specifications

Disc	Frequency response: 20Hz-20kHz Channel separation @ 1kHz: >80dB D/A converter: 24 Bit
FM Tuner	Tuning range: 87.5MHz-107.9MHz Usable sensitivity: 10dBf 50dB quieting sensitivity: 20dBf Stereo separation @ 1kHz: 38dB Frequency response: 30Hz-13kHz
AM Tuner	Tuning range: 530kHz-1710kHz Usable sensitivity: 24uV Frequency response: 30Hz-2.3kHz
USB	Compatibility: High Speed USB 2.0 Output: 5VDC, 500mA USB Class: Mass storage class
SD	Compatibility: SD memory card & SDHC memory card
Monitor	Panel size: 7" diagonal measurement View angle (up/down/left/right): 50/70/70/70 Resolution: 800 (H) x 480 (V) Brightness (cd/m ²): 250 Contrast ratio: 500:1 Pixels: 1,152,000
General	Speaker output impedance: 4 ohms Line output voltage: 2 volts Line output impedance: 200 ohms Chassis dimensions: 7" x 7" x 2" (W x D x H)
	Design and specifications subject to change without notice.



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

Power Output: 18 Watts RMS x 4 channels at 4 ohms and \leq 1% THD+N Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)



Troubleshooting

General		
Problem	Cause	Action
Unit will not turn on	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
(no power)	Black wire not connected	Check connection to ground
	Fuse blown	Replace fuse(s)
Unit has never	Speaker wires not connected	Check connections at speakers
Unit has power (but no sound)	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
	Yellow or red wire touching chassis ground	Check for pinched wire
Unit blows fuse(s)	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 24
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
Encoder altimates	Unit is not mounted correctly	Check mounting sleeve
Excessive skipping	Physical defect in media	Check media for scratches
"Wrong Region" appears on display	Region code error	Use discs labeled "Region 1" or "All" only

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.	
	Dealer Name	
	Dealer Phone	
	Purchase Date	
Register Your Product	Register your product online at www.dualav.com	



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