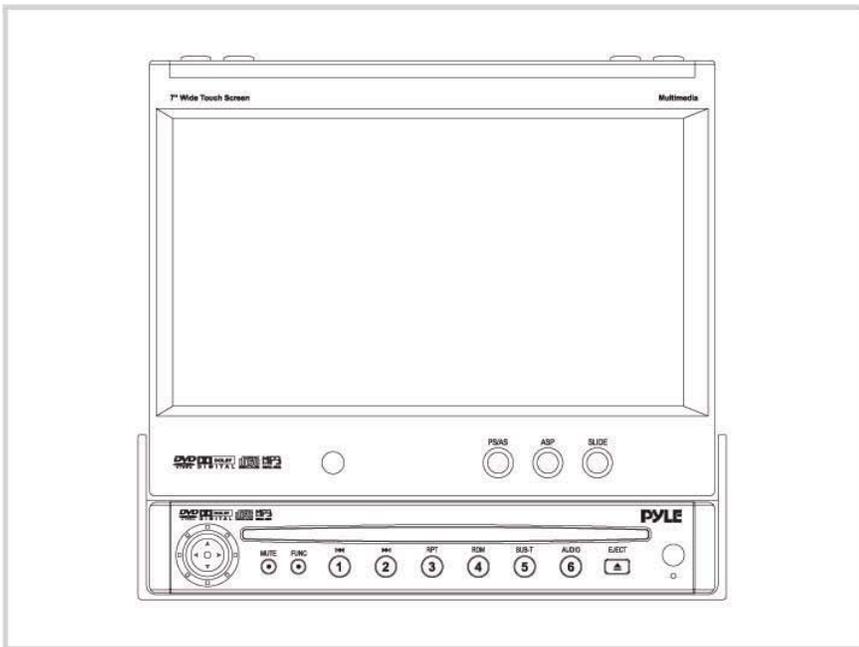


PYLE

Touch Screen 7" LCD Monitor with DVD Player and TV, AM/FM Receiver



MODEL : PLTCDN7

Owner's Manual

Contents

Thank you for purchasing this product.

* Please read this owner's manual carefully before installation and operating this unit and follow up all instructions for safe connecting, operating this product. Otherwise, the unit can be damaged.

* Please keep this manual in a handy place for future use.

Contents

Precaution.....	2
Handling Discs	3
Operating with the main unit.....	4
Operating with the Remote Control.....	5~6
Basic Operations.....	7
Radio Operation.....	8
Basic Operations with Touch Keys.....	9~10
System Settings with Touch Keys.....	11
Radio Operation with Touch Keys.....	12
TV Operation with Touch Keys.....	13
DVD/CD Changer Operation with Touch Keys.....	14
Navigation Operation with Touch Keys.....	14
Rear View Camera Operation with Touch Keys.....	15
DVD System Settings with Touch Keys.....	16
General Setup.....	17
Speaker Setup.....	17
Audio Setup.....	18
Preference.....	19~20
DVD Video Operation with Touch Keys.....	21
VCD Operation with Touch Keys.....	22
Listening to CD with Touch Keys.....	23
Listening to MP3 with Touch Keys.....	24
Accessories.....	25
Installation.....	26
Wire Connections.....	27
Connection for AV Equipments.....	8~29
Specifications.....	30~31
Troubleshooting Guide.....	32

Precautions

WARNING

For your safety, the driver should not watch the TV/video or operate the controls while driving a vehicle. The driver may be distracted from looking ahead and an accident could occur. Please note that watching and operating the TV while driving are prohibited by law in some countries. Also keep the volume to a level at which external sounds can be heard while driving.

Warning Screen

While the vehicle is in motion, the monitor only shows "WARNING PICTURE" to prevent traffic accident. Stop the car in a safe location and apply the parking break to watch the picture.

⚠ Caution

1. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
2. When the temperature of the unit falls such as during winter, the monitor screen will become darker than usual. Normal brightness will return after using the monitor for a while.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts. Be sure to consult your supplier.
4. Any changes or modifications to this product not approved by the supplier could void the warranty and will violate FCC approval.

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.

Product is certified by the manufacturer to comply with DHHS RULES 21 CFR SUBCHAPTER J APPLICATION AT THE DATE OF MANUFACTURE.

THE USER'S MANUAL OR INSTRUCTION MANUAL FOR AN INTENTIONAL OR UNINTENTIONAL RADIATOR SHALL CAUTION THE USER THAT CHANGES OR MODIFICATIONS DOES NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Handling Discs

Playable Discs

This product only requires using of 12cm following circular discs.



■DVD-R, DVD-RW, CD-R and CD-RW can be played back, but it depends on the recorded condition.



■Region number(Regional restriction number)

- 1 - USA, CANADA
- 2 - EUROPE, JAPAN, SOUTH AFRICA, MID EAST ASIA
- 3 - KOREA, SOUTH ASIA
- 4 - LATIN AMERICA, SOUTH AMERICA, AUSTRALIA, NEW ZELAND
- 5 - RUSSIA, INDIA, MONGOLIA, AFRICA
- 6 - CHINA
- 7 - ALL COUNTRY

The Region number of this unit is set at your region number.

DVD players and DVD video discs each have an assigned region number, and if this numbers do not match, a disc cannot be played.

Handling Discs

- *Do not forcibly insert or remove discs.
- *Turn off the power after remove the disc loaded.
- *Do not use discs that have large scratches, are misshapen, cracked, etc.
When those discs loaded, the monitor shows " Disc Error". In this case, eject the discs.
No ejecting those discs can damage the unit.
- *Do not touch the recording side of discs by hands. Hold it carefully by the edges
- *Donot expose discs to direct heat from heaters or any heat sources.
- *Do not expose discs to excess humidity or dust.
- *To remove fingermarks and dust, wipe in a straight line from the center of the disc to the circumference with soft, well- dried cloth.
- *Do not clean discs surface with solvent, thinner, and other chemicals.

⚠ Caution

With the screen open, a driver may not see the disc insertion slot. For your safety, insert a disc with the screen closed.

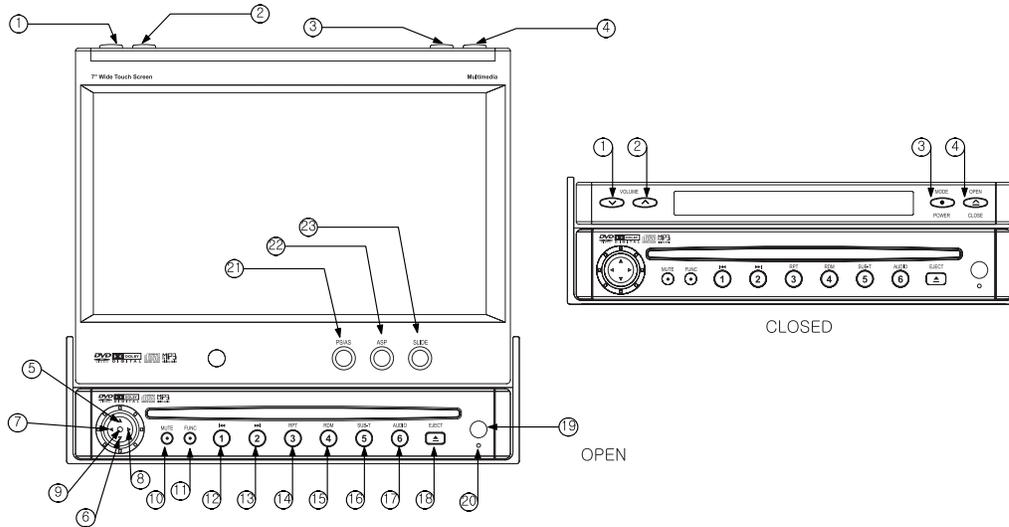


CLOSED



OPEN

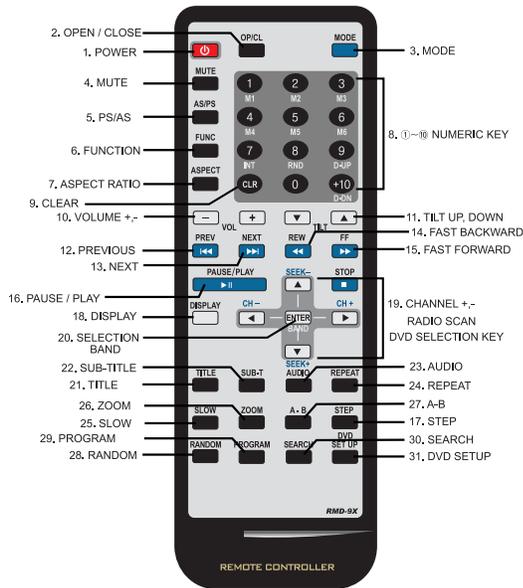
Operating with the main unit



Number	Radio	TV	DVD/CD
1. VOLUME		Volume Down	
2. VOLUME		Volume Up	
3. MODE		Short Key: Mode/Power On	
POWER		Long Key: Powe Off	
4.OPEN/CLOSE		Monitor Open/Close	
5. JOG	Ch Seek Up		Upper
6. JOG	Ch Seek Down		Downward
7. JOG	Ch Tune Down		To the Left
8. JOG	Ch Tune Up		To the Right
9. JOG Center	Band		Enter
10. MUTE	Mute		
11. FUNC	Setting Sounds		
12. Preset 1	Preset 1		
			Track/Chapter/Fast Forward
13. Preset 2	Preset 2		
			Track/Chapter/Fast Forward
14. Preset 3	Preset 3		
RPT			Repeat
15. Preset 4	Preset 4		
RDM			Random
16. Preset 5	Preset 5		
SUB-T			Sub Title
17. Preset 6	Preset 6		
AUDIO			Audio
18. Eject	Disc Eject		
19. R/Sensor	Remote Sensor		
20. Reset	Reset		
21. PS/AS	Preset Scan/Auto Store		
22. ASPECT	Aspect		
23. SLIDE	Sliding Monitor		

Operating with the Remote Control

REMOTE CONTROLLER KEY FUNCTION



REMOTE CONTROLLER

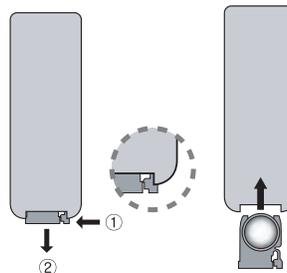
Number	Radio	TV	CDC	DVD/CD
1	POWER ON/OFF			
2	OPEN/CLOSE			
3	MODE			
4	MUTE			
5	Auto Store/Preset Scan			
6	Function			
7	ASPECT			
8 - (1)	Preset 1	Ch No		
(2)	Preset 2	Ch No		
(3)	Preset 3	Ch No		
(4)	Preset 4	Ch No		
(5)	Preset 5	Ch No		
(6)	Preset 6	Ch No		
(7)		Ch No	Intro	
(8)		Ch No	Random	
(9)		Ch No	Disc Up	
(10)			Disc Down	Figure.10
9				Clear
10	Volume Up/Down			
11	TILT Up/Down			
12 - <<<			Track/Chapter Down	
13 ->>>			Track/Chapter Up	
14 -<<<			Fast Backward	
15 ->>>			Fast Forward	
16 ->			Pause/Play	
17				STEP
18				DISPLAY
19 -▲	Ch Seek Up			Upper
▼	Ch Seek Down			Downward
◀	Ch Tune Down			To the Left
▶	Ch Tune Up			To the Right
20	Band			Enter/Play
21				TITLE
22				SUB-TITLE
23				AUDIO
24			REPEAT	
25				SLOW
26				ZOOM
27				A-B
28				STEP
29				RANDOM
30				PROGRAM
31				SEARCH
32				DVD SETUP

Replacing the battery for the remote control

- Slide and hold the hooker (Ⓜ in the figure) of the battery cover to in the direction of the arrow
- Slide the battery cover downward hoding the hooker in the direction of the arrow.
- insert the battery (CR2025 3V) with O+ face up.
- Close the battery cover.

Notes

- *Do not use metal tweezers to hold the battery to prevent short-circuit.
- *Dispose of spent batteries in compliance with all applicable regulation.



Basic Operations

Resetting

- *In case the unit does not operate normally, press the [RESET] button with a pointed object to restart the operation when the power of the unit is on.
- *Pressing the [RESET] button will turn off the power. Press the [MODE/POWER] button to turn power on.
- *When the screen shows touch key [RADIO] on another mode, change the mode to radio mode and then return to the original mode.

Turning On the Power

Press the [MODE/POWER] button shortly to switch on the unit,

Notes

When the power of the unit is off, pressing the [OPEN/CLOSE] button will turn on the power and the monitor will automatically open.

Turning Off the Power

Press the [MODE/POWER] button for more than 2 seconds again to switch off the unit.

Notes

- *When the monitor is open, pressing the [OPEN/CLOSE] button will close the monitor and video is off, but sound is still working.
- *When the monitor is open, pulling out the car key (ACC OFF) will turn off the power and close monitor automatically.

Selecting a Mode

1. Press the [MODE/POWER] button shortly to change the mode of operation.
2. Each time this button is pressed, the mode switches in the following order
RADIO -> CDC (DVDC) -> DVD -> TV -> NAVI -> AV1 -> AV2 -> RVC -> RADIO

Notes

*[OFF] or [NONE] for set up CDC, AV1, AV2, RVC is selected, those modes do not appear on the monitor.

Adjusting the Volume

Press the Volume [▼] or [▲] button on any mode to adjust the volume.
The volume level is indicated in the monitor from 0 (minimum) to 50 (maximum).

⚠ Caution

While driving, Keep the volume level at which external sounds can be heard.

Mute On/Off

Each time the [MUTE] button is pressed, mute is turned on and off.

Opening the Monitor

Press the [OPEN/CLOSE] button. The monitor comes out and stands up automatically.

Notes

*When the unit is off, pressing the [OPEN/CLOSE] button will turn on the power and the monitor will be automatically opened.

⚠ Caution

- *If the monitor touches an obstacle while it is opening or closing, the monitor will stop moving or close. Close the monitor after removing the obstacle.
- *Do not touch the monitor when it is opening or closing. Doing so may damage the unit.
- *To prevent the battery from going dead, operate this unit with the engine running.

Basic Operations

Closing the Monitor

Press the [OPEN/CLOSE] button again to house the monitor.

⚠ Caution

*The monitor can be closed only when it is positioned parallel with the front of unit. Position manually the monitor parallel with the front of unit by holding left and right side of the monitor with hands and then press the [OPEN/CLOSE] button to close it.

*When a picture displays on the monitor, pressing the [OPEN/CLOSE] button will close the monitor. But the sound can still be heard. If you want to turn off the sound, press the [MODE/POWER] button more than 2 seconds to turn off the power and the sound.

Adjusting the Slide Position

1. Press the [SLIDE] button.
2. Each time the [SLIDE] button is pressed, the monitor slides forward or backward 1 step, total 2 steps with 3 positions. The adjusted position is stored in memory.

Adjusting the Lateral Viewing Angle

The monitor's left/right viewing angle can be adjusted manually as the picture below. Adjust the angle manually by holding both left and right side of the monitor with hands as the picture.



Adjusting the Picture Mode (Aspect)

Each time the [ASPECT] button is pressed, the picture mode changes in following order.

FULL -> WIDE -> NORMAL -> FULL

[FULL]: Original 4:3 picture is expanded sideways to fill the screen.

Top and bottom of the picture are squashed.

[WIDE]: Only right and left portions of original 4:3 picture are expanded sideways.

[NORMAL]: Original picture with 4:3 aspect ratio.

* The factory default setting is [NORMAL] .

Adjusting the Bass Level

1. Press the [FUNC] button repeatedly until [BASS] is selected.
2. Press the VOLUME [▶] button to increase the bass level.
3. Press the VOLUME [◀] button to decrease the bass level.

Adjusting the Treble Level

1. Press the [FUNC] button repeatedly until [TREBLE] is selected.
2. Press the VOLUME [▶] button to increase the treble level.
3. Press the VOLUME [◀] button to decrease the treble level.

Adjusting the Balance Level

1. Press the [FUNC] button repeatedly until [BALANCE] is selected.
2. Press the VOLUME [▶] button to emphasize the right channel.
3. Press the VOLUME [◀] button to emphasize the left channel.

Adjusting the Fader Level

1. Press the [FUNC] button repeatedly until [FADER] is selected.
2. Press the VOLUME [▶] button to emphasize the front channel.
3. Press the VOLUME [◀] button to emphasize the left channel.

Radio Operation

Press the [MODE/POWER] button repeatedly until radio mode is selected.

Cautions

In case the radio is tuned over 3 hours with closing the monitor, The unit will be hotter. Please make sure to open the monitor when you want to listen to radio over 2 hours, or else the unit may be damaged.

Selecting Radio Reception Area

See "Selecting Radio Reception Area" in page 12.

Selecting the Radio Band

1. Press the [MODE/POWER] button repeatedly until the radio mode is selected. Both the sub LCD and the monitor displays information on the radio station tuned in.
2. Press the [ENTER] button to select the desired radio band. Each time the [ENTER] button is pressed, the radio band switches in following order.

FM1 -> FM2 -> FM3 -> AM1 -> AM2 -> FM1

Seek Tuning

Push the JOG [▲] or [▼] button to automatically seek a station. Tuning automatically stops at a broadcasting frequency.

Manual Tuning

Push the JOG [◀] or [▶] button repeatedly until the desired station is selected. The frequency changes one step at a time.

Manual Memory

1. Tune in the station to be preset with seek or manual tuning.
2. Press one of the [PRESET] buttons for more than 2 seconds at which you want to store the selected station.
3. Each band can store 6 stations in the [PRESET] buttons as follows.

FM1: 6, FM2: 6, FM3: 6, AM1: 6, AM2: 6, Total: 30stations

Auto Memory

1. Press the [ENTER] button to select the band for the stations to be preset.
2. Press the [PS/AS] button for more than 2 seconds. Stations are automatically stored in the [PRESET] buttons in order of signal strength.
3. Each band can store 6 stations in the [PRESET] buttons as follows.

Preset Scan

This function is useful when searching the stations stored in each [PRESET] buttons.

1. Press the [PS/AS] button shortly. The unit starts scanning each station for 5 seconds sequentially.
2. Press the [PS/AS] button shortly again to stop scanning and retain the station currently selected.

Recalling the Preset Station

Press one of the [PRESET] button which the desired station is preset .

Basic Operations with Touch Keys

This unit has **Touch Screen** feature. You can select/adjust the functions by touching **touch keys** displaying on the monitor.

You can touch the screen with finger or the plastic pen supplied with this unit.

1. Press the **[OPEN/CLOSE]** button to open the monitor and turn on the power.
2. **Touch anywhere of the screen softly with a finger to show the menu of touch keys.**

BASiC MODE

1. **[MODE]** key
2. **Current mode display**
3. **[EQ/DSP]** key
4. **[SETUP]** key
5. **[PICTURE]** key
6. **[EXIT]** Key
7. **[TILT]** Up/Down key



BASiC MODE

Selecting the Mode

1. Touch **[MODE]** to show the menu of each mode on the screen
2. Touch one of the mode key that you want.

Adjusting Sound Volume

Touch **VOL [▲]** or **[▼]** to adjust the volume of the sound.
The adjusted sound volume is stored in memory.

Adjusting Tilt Angle

Touch **TILT [▲]** or **[▼]** to adjust vertical angle of the monitor.
The adjusted angle is stored in memory.

Removing the menu on the screen

Touch **[EXIT]** to exit from the menu on the screen, or else the menu will disappear within 10 seconds.

Touch Point Calibration

The touch point may be moved a little after long using of the unit.
In this case, reset the touch point as follows

1. Press **[FUNC]** button of the main unit for more than 10 seconds. The monitor shows following picture .



2. Press the center of cross mark on the left upper side with a plastic pen with a rounded end.
The cross mark disappears and appears again on the right upper side.
3. Press the center of cross mark on the right upper side. The cross mark disappears and appears again on the left bottom.
4. Press the center of cross mark on the left bottom side. The cross mark disappears and appears again on the right bottom.
5. Press the center of cross mark on the right bottom side. The cross mark disappears and appears. The correct touch point is set up.

System Settings with Touch Keys

Adjusting the Bass Level

1. Touch **[EQ/DSP]** to show the audio menu.
2. Touch **[◀]** or **[▶]** to decrease or increase the bass level.

Adjusting the Treble Level

1. Touch **[EQ/DSP]** to show the menu.
2. Touch **[◀]** or **[▶]** to decrease or increase the treble level.

Adjusting the Balance Levels

1. Touch **[EQ/DSP]** to show the menu.
2. Touch **[◀]** or **[▶]** to emphasize the sound in the left or the right channel.

Adjusting the Fader Levels

1. Touch **[EQ/DSP]** to show the menu.
2. Touch **[◀]** or **[▶]** to emphasize the sound in the front or the rear channel.

Selecting EQ

1. Touch **[EQ/DSP]** to show the menu.
 2. Touch **[EQ]** to select one of EQ mode
- Each time **[EQ]** is touched, the EQ mode switches as follows.

OFF -> CLASSIC -> ROCK -> POPS -> JAZZ -> OFF

Setting Up 3D Sound

1. Touch **[EQ/DSP]** to show the menu.
2. Touch **[3D]** to select 3D sound **[ON]** or **[OFF]**.
[ON]: 3D sound on
[OFF]: 3D sound off

Setting Up 4.1 Channel Output

1. Touch **[EQ/DSP]** to show the menu.
2. Touch **[4.1 Ch]** to select 4.1 channel **[ON]** or **[OFF]**.
[ON]: 4.1 Ch on
[OFF]: 4.1 Ch off

Setting Up A/V 1 or A/V 2 Input

1. Touch **[SETUP]** and then Touch **[EXT. DEVICE]** to show the menu.
2. Touch **[AV 1]** or **[AV 2]** to select **[ON]** or **[OFF]**.
Each time **[AV 1]** or **[AV 2]** is touched, **[ON]** or **[OFF]** is selected.
3. Select **[ON]** when a external device is connected to **[AV 1]** or **[AV 2]**.
Select **[OFF]** when no external device is connected to **[AV 1]** or **[AV 2]**.

Notes

*When a navigation unit is connected to AV 1 or AV 2 input, make sure to set **[OFF]** for AV 1 or AV 2 which it is connected to.

System Settings with Touch Keys

Setting Clock

1. Touch **[SETUP]** and then Touch **[SYSTEM]** to show the menu.
2. Touch **HOURL** [◀] or [▶] to adjust the hour.
3. Touch **MIN** [◀] or [▶] to adjust the minute.

Notes

- * The screen displays 24 hours and sub LCD displays 12 hours.
- * Clock on the sub LCD displays only when the power of the unit is off and ACC on.

Adjusting the Volume of Subwoofer

1. Touch **[SETUP]** and then Touch **[VOLUME]** to show the menu.
2. Touch **Woofer VOL** [◀] or [▶] to adjust the subwoofer volume.

Adjusting the Brightness of Picture

1. Touch **[PICTURE]** to show the picture menu.
2. Touch **BRIGHT** [◀] or [▶] to adjust the brightness of picture.

Adjusting the Color Density of Picture

1. Touch **[PICTURE]** to show the menu.
2. Touch **COLOR** [◀] or [▶] to adjust the color density of picture.

Adjusting the Tint of Picture

1. Touch **[PICTURE]** to show the menu.
2. Touch **HUE** [◀] or [▶] to adjust the tint of picture.

Selecting the Brightness of Backlight

1. Touch **[PICTURE]** to show the menu.
2. Touch **[DIMMER]** to select the brightness of backlight.
Each time [DIMMER] is touched, the menu switches as follows.

USER -> STD -> DAY -> NIGHT -> AUTO -> USER

- [USER]** : To adjust the dimmer level by end user
- [STD]** : Standard level of the dimmer adjusted by the factory
- [DAY]** : Recommended when the surrounding is very bright.
- [NIGHT]** : Recommended for night time or dark surrounding.
- [AUTO]** : Automatically adjusted according to the surrounding brightness.

Radio Operation with Touch Keys

1. Touch softly with finger anywhere of the screen to show touch key menu.
2. Touch **[MODE]** to show the mode menu and then touch **[RADIO]** to select radio mode.

Selecting Radio Reception Area

1. Touch **[SETUP]** and then Touch **[SYSTEM]** to show the menu.
2. Touch **[RADIO AREA]** to select radio area for your country.

USA	USA, Canada, S.America
EUROPE	EU, S/E Asia, M/E Asia, Africa
KOREA	Korea, Taiwan, Philipine
CHINA	China

Selecting the Radio Band

Touch **[BAND]** to select radio band.

Each time **[BAND]** is touched, the radio band switches in following order.

FM1 -> FM2 -> FM3 -> AM1 -> AM2 ->FM1

Seek Tuning

Touch **[▲]** or **[▼]** to automatically seek a radio station.

Tuning automatically stops at a broadcasting frequency.

Manual Tuning

Touch **[◀]** or **[▶]** repeatedly until the desired station is selected.

The frequency changes one step at a time.

Manual Preset Memory

1. Tune in the station to be preset with seek or manual tuning.
2. Touch one of the preset **[CH1 - CH6]** for more than 2 seconds at which you want to store the selected station.
3. Each band can store 6 stations.

FM1: 6, FM2: 6, FM3: 6, AM1: 6, AM2: 6, Total: 30stations

Auto Preset Memory

1. Touch **[BAND]** to select the band for the stations to be preset.
2. Touch **[AS]** to store the stations automatically. The stations will be automatically stored in the **[PRESET]** buttons in order of signal strength.

Preset Scan

The frequency of the stations stored in the preset **[CH1 - CH6]** is being displayed on the screen.

1. Touch **[PS]** shortly. The unit starts scanning each station for 5 seconds sequentially.
2. Touch **[PS]** shortly to stop scanning and retain the station currently selected.

Recalling the Preset Station

1. Touch **[BAND]** to select the desired band.
2. Touch one of preset **[CH1 - CH6]** shortly at which the desired station is preset.

Cautions

In case the radio is worked over 3 hours without opening the monitor, The unit becomes hotter. It is strongly recommended to open the monitor when you want to listen to radio over 3 hours, or else the unit can be damaged.

TV Operation with Touch Key

Selecting Video System

- 1.Touch [SETUP] and then Touch [SYSTEM] to show the menu.
- 2.Touch [VIDEO STD] to select TV system for your country.
Each time [VIDEO STD] is touched, the TV system is switched.

NTSC -> PAL BG -> PAL DK -> PAL I -> PAL AUS -> NTSC

- 3.Touch [OK] to store the TV system you selected.

<TV System for Your Country>

NTSC	USA, Canada, Mexico, Chile, Venezuela. Taiwan, Korea
PAL BG	Germany, Italy. Spain, Switzerland, Sweden, Netherlands Turkey, M/E Asia, S/E Asia
PAL I	UK, HK, S/Africa,
PAL DK	China, Poland
PAL AUS	Australia

Watching TV

1. Touch [MODE] key to show the mode menu and then touch [TV] to select TV mode.
2. Touch [BAND] to select the desired band.
Each time [BAND] is touched, the TV band switches in following order

TV1 -> TV2 -> TV3 -> TV1

- 3.Touch one of PRESET [1-36] which is preset the desired station.

Auto Store

- 1.Touch [BAND] to select the desired band.
- 2.Touch [AS] to auto scan and store TV channels.
All receivable TV channels are automatically stored in each TV band.
The 36 stations with good reception are stored in preset on each band.

Manual Tuning and Store

- 1.Touch [BAND] to select the desired band.
- 2.Touch [◀] or [▶] for manual tuning and [▲] or [▼] for auto seek tuning.
- 3.Touch one of PRESET [1-36] to store the selected station.

Caution

- * For your safety, this unit turns off the picture when the car is moving. Only the audio can be heard. The picture can only be watched when the parking break is applied.
Stop the vehicle in a safe location and apply the parking break to watch the picture.

Notes

- * When receiving the TV broadcasts, the strength of the signals changes since the car is moving, so in some cases it may not be possible to receive clear pictures.
- * TV signals are strongly linear, so reception is affected by buildings, mountains and other obstacles.
- * Such external factors such as electric train lines, a high voltage lines, and signal devices may disturb the picture or cause noise.
- * If the reception is poor, switch to a station with good reception.

DVD/CD Changer Operation with Touch Keys

Setting Up a DVD/CD Changer

1. Touch **[SETUP]** and then Touch **[EXT. DEVICE]** to show the menu.
2. Touch **[CDC]** to select DVD or CD changer source.
Each time **[CDC]** is touched, the source is switched as follows.
NONE -> MPIRE -> DVDC 12 -> DVDC 10 -> S CDC -> CDC 6 -> NONE
3. Select **[6 CDC]**, **[10 DVDC]** or **[12 DVDC]** when it is connected to the AV control box.
Select **[S CDC]** when Sanyo 6 CD changer is connected to the AV control box.
Select **[NONE]** when no DVD or CD changer is connected to the AV control box.
*The factory default setting is **[NONE]**.

Notes

- *The car DVD or CD changer is an optional item. This unit only offers input for the system.
- *Only when 6 disc CD changer, 10 or 12 disc DVD changers which we are supplying is connected, all the functions are working as mentioned in here.
- *To control of the 10 or 12 DVD changer, see the owner's manual of the DVD changer.

Operating the 10/12 DVD Changer or the 6 CD Changer

- Touch **[MODE]** key and then touch **[CDC]** key to select CD/DVD changer mode.
STATUS: This shows the current CD status (Disc check, Seek, Etc).
TIME: This shows playing time of the disc being played.

Selecting a Disc

Touch **[▲]** or **[▼]** button to select "DISC".

Pausing Disc Play

Touch **[▶||]** to pause playback. Touch **[▶||]** again to resume playback.

Stopping Disc Play

Touch **[■]** to stop playback. Touch **[▶||]** to resume playback.

Fast Forward Play

Touch **[▶▶]** for fast forward.

Fast Backward play

Touch **[◀◀]** for fast backward.

Track/Chapter Search

Touch **[|◀◀]** or **[▶▶|]** to search the track/chapter number of the current disc.

Repeat Play

Touch **[RPT]** to select **[ONE]**, **[ALL]** or **[OFF]**

[ALL] : All the track on the current disc plays repeatedly

[ONE] : The selected track on the current disc plays repeatedly.

[OFF] : Repeat play will be off.

Intro Play

Touch **[INT]** to select **[ONE]**, **[ALL]** or **[OFF]**

[ALL] : The first 10 seconds of each track of all discs plays in succession.

[ONE] : The first 10 seconds of each track of the current disc plays in succession.

[OFF] : Intro play will be off.

Random Play

Touch **[RDM]** to select **[ONE]**, **[ALL]** or **[OFF]**

[ALL] : All the tracks of all discs plays in random order.

[ONE] : All the tracks on the current disc plays in random order.

[OFF] : Random play will be off.

Navigation Operation with Touch Keys

Setting Up

1. Touch **[SETUP]** and then Touch **[EXT. DEVICE]** to show the menu.
2. Touch **[NAVI]** to select a navigation Input source.
Each time **[NAVI]** is touched, Input source is switches as follows.

<Version 1>

NONE -> NOVA -> DW -> NONE

[NONE]:Select no navigation unit is connected to the unit.

[NOVA]or **[DW]**:Select RGB output of your navigation is connected to **[RGB]** input of the main unit.

* The factory default setting is **[NONE]**.

<Version 2>

NONE -> RGB -> AV 1 -> AV 2 -> NONE

[NONE] No navigation unit is connected to the unit.

[RGB] RGB output of your navigation is connected to **[RGB]** input of the main unit.

[AV1] AV output of your navigation is connected to **[AV1]** input of the AV control box.

[AV2] AV output of your navigation is connected to **[AV2]** input of the AV control box.

* The factory default setting is **[NONE]**.

* Check the version of your unit and set up according to the version

Watching the Picture of Navigation

1. Touch **[MODE]** to show the mode menu.
2. Touch **[NAVI]**. The screen shows the picture of the navigation
or press **[MODE]** button on the main unit repeatedly until **[NAVI]** mode is selected.

Notes

*When your navigation unit is connected to AV1 or AV2 input of the AV control

box, set up AV1/AV2 **[ON]** and then select AV1/AV2 mode to watch the picture of the navigation.

*The car navigation system is an optional item. This unit only offers input for the system.

Rear View Camera Operation with Touch Keys

Setting Up

1. Touch **[SETUP]** and then Touch **[EXT. DEVICE]** to show the menu.
 2. Touch **[RVC]** to select **[ON]** or **[OFF]**
Each time **[RVC]** is touched, **[ON]** or **[OFF]** is selected.
 3. Select **[ON]** when a rear view camera is connected to **[RVC]** input of the AV control box.
or select **[OFF]** when no rear view camera is connected to.
- *The factory default setting is **[OFF]**.
*Connect video output of your rear view camera to video input **[RVC IN]** of the AV control box.

Watching the Picture of Rear View Canera

1. Touch **[MODE]** to show the mode menu.
2. Touch **[RVC]** or set the rear gear on any mode.The monitor shows the picture of
the back view camera picture.

Notes

*A rear view camera is an optional item. This unit only offers input for the system.

DVD System Settings with Touch Key

- 1.Touch [MODE] key to show the mode menu and then touch [DVD] to select DVD mode.
- 2.Touch [Setup] to show DVD setup menu. The screen shows following menu.

SETUP MENU -- MAIN PAGE

GENERAL SETUP
SPEAKER SETUP
AUDIO SETUP
PREFERENCES
EXIT SETUP

- * If [Setup] is touched, playback will be paused and the screen shows the setup menu.
- 3.Touch [▲], [▼], [◀], or [▶] to select and adjust the item.

- [▲] : Press to select upper item.
- [▼] : Press to select lower item.
- [◀] : Press to select left item.
- [▶] : Press to select right item.

- 4.Touch [↵] (Enter) to execute the selected items or save the changes

General Setup

PIC MODE

Select according to the disc recording format. If you are not sure of the recording format, it is recommended to select **[AUTO]**.

[AUTO]: Automatically select the image mode according to the disc recording format.

[HI-RES]: Play with high resolution for TV format.

[NON-FLICKER]: Selected to lower flash playing for movie format.

*The factory default setting is **[AUTO]**.

ANGLE MARK

Select according to the disc-recording format. You can set up so that the angle mark appears on the screen where the angles can be switched.

[ON] : To show angle mark on the screen.

[OFF] : To close angle mark.

*The factory default setting is **[ON]**.

OSD LANGUAGE

Select a desired language for On-Screen Display (OSD) to set it.

[ENGLISH] : English OSD is selected.

[KOREAN] : Korean OSD is selected.

*The factory default setting is **[ENGLISH]**.

CAPTIONS

Select **[ON]** or **[OFF]** to set the display captions on or off.

*The factory default setting is **[OFF]**.

MAIN PAGE

Select **[MAIN PAGE]** to return to "SETUP MENU -- MAIN PAGE" menu.

Speaker Setup / Audio Setup

DOWNMIX

Select a desired audio output mode.

[LT/RT]: Select for Pro Logic left and right audio output.

[STEREO]: Select for stereo audio output.

[OFF]: Select for 5.1 Channel audio output.

* The factory default setting is [STEREO] .

AUDIO OUT

Select a desired output mode for audio signals.

[ANALOG]: Outputs analog audio signals through RCA connection.

[SPDIF/RAW]: Outputs 5.1 ch digital signals through optical connection to a digital amplifier.

[SPDIF/PCM]: Outputs 2 ch digital signals through optical connection to a digital amplifier.

* The factory default setting is [ANALOG] .

* Select [SPDIF/RAW] or [SPDIF/PCM] when a digital amplifier is connected to the AV control box.

OP MODE

Select audio output level.

[LINE OUT]: Standard audio output level.

[RF REMOD]: Increased audio output level.

* The factory default setting is [RF REMOD] .

DUAL MONO

Select a desired audio output mode.

[STEREO]: Stereo audio output

[L-MONO]: Left audio output only

[R-MONO]: Right audio output only.

[MIX-MONO]: Left and right both audio output

* The factory default setting is [STEREO] .

PRO LOGIC

Set up Dolby Pro Logic

[OFF]: Dolby Pro Logic Off.

[ON]: Dolby Pro Logic On.

[AUTO]: Dolby Pro Logic Auto.

* The factory default setting is [ON] .

LPCM OUTPUT

Select according to PCM output frequency of your digital amplifier.

[LPCM 48K]

[LPCM 96K]

* The factory default setting is [LPCM 96K] .

Preferences

AUDIO

Select a desired audio language.

KOREAN, ENGLISH, FRENCH, SPANISH, CHINESE, JAPANESE

*The factory default setting is [ENGLISH].

*This option is available only when the language selected is recorded in the disc.

SUBTITLE

Select a desired subtitle language.

KOREAN, ENGLISH, FRENCH, SPANISH, CHINESE, JAPANESE, OFF

*This option is available only when the language selected is recorded in the disc.

*The factory default setting is [ENGLISH].

DISC MENU

Select a desired DVD menu language.

KOREAN, ENGLISH, FRENCH, SPANISH, CHINESE, JAPANESE

*This option is available only when the language selected is recorded in the disc.

*The factory default setting is [ENGLISH].

PARENTAL

This is to cut scenes that are unfavorable for children. Select a desired parental lock.

When a parental lock is selected, you need to input a password to see the picture.

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

*The factory default setting is [8 ADULT].

PASSWORD

You can change the old password (4-digit) to new one (4-digit).

1. Select [PASSWORD] and [CHANGE].
2. Input an old password with number button on the remote control and touch [ENTER].
3. Input a new password with number button on the remote control, and touch [ENTER].
4. Input a new password again in the [CONFIRM] and touch [ENTER].

*Factory default setting is "No Password".

DEFAULTS

Select [RESET] and touch [ENTER] to reset all saved items to the factory defaults.

DVD Video Operation with Touch Keys

1. Insert a DVD disc into the disc slot hole.
The mode automatically switches to DVD mode and Playback starts.
2. Press the [OPEN/CLOSE] button to open the monitor.

Notes

*In case playback does not operate normally, press the [RESET] button with a pointed object to restart the operation.

Switching the NTSC/PAL system.

You can switch the video system. See "Selecting Video System" in TV operations with Touch Key in Page 13.

Pausing Disc Play

Touch [▶||] to pause playback. Touch [▶||] again to resume playback.

Stopping Disc Play

Touch [■] to stop playback. Touch [◀-] or [▶||] to resume playback.

Fast Forward Play

Touch [▶▶] for fast forward.
Each time [▶▶] is touched, the fast forward speed goes from 2X, 8X, 16X, 32X, 64X to normal playback.

Fast Backward play

Touch [◀◀] for fast backward.
Each time [◀◀] is touched, the fast backward speed goes from 2X, 8X, 16X, 32X, 64X to normal playback.

Chapter Search

1. Touch [|◀◀] to search the chapter number to backward.
2. Touch [▶▶|] to search the chapter number to forward.

DVD Video operations with the remote control

Disc Menu

1. Press the [TITLE] button to show root menu on the screen.
2. Press the [▲], [▼], [◀], or [▶] button to select the desired menu.
3. Press the [ENTER] button to confirm and play the selected menu.

Switching the Subtitle Language

Press the [SUB-T] button repeatedly until the desired subtitle language is selected.
*This function only available when there are two or more languages recorded in the disc.

Switching the Audio Language

Press the [AUDIO] button repeatedly until the desired audio language is selected.
*This function only available when there are two or more languages recorded in the disc.

Slow Playback

1. Press the [SLOW] button. Each time the [SLOW] button is pressed, the slow playback speed goes from forward 2X, 4X, 8x, backward 2X, 4X, 8X to normal playback.
 2. Press the [▶II] button to return to normal playback.
- *There is no sound during slow playback.

Frame by Frame Playback

1. Press the [STEP] button. Press the button again to show next image.
 2. Press the [▶II] button to return to normal playback.
- *There is no sound during frame by frame playback.

Repeat Playback

Each time the [REPEAT] button is pressed, the repeat function switches as follows.

CHAPTER REPEAT -> TITLE REPEAT -> REPEAT OFF -> CHAPTER REPEAT

Repeat between A and B Scene

1. Press the [A-B] button at the beginning of the desired scene.
2. Press the [A-B] button again at the end of the desired scene.
The scene from A to B continues repeating.
3. Press the [A-B] button again to cancel REPEAT A-B.

Searching with a Chapter/Title number

1. Press the [SEARCH] button to show chapter and title number.
2. Press the [◀] or [▶] button to select chapter or title.
3. Input the number of the chapter or title that you want to play back with the [0] to [9] key.
4. Press the [ENTER] button to confirm and play the selected chapter/title number.

Viewing Zoom

1. Each time the [ZOOM] button is pressed. The size of image changes from X1.5, X2, X3 to normal.
2. While zooming, press [▲], [▼], [◀], or [▶] to scroll the image.
3. Press [▶II] button to return to normal playback.

Time Display

*Each time the [DISPLAY] button is pressed, the time display during playback switches as follows.

1. Displaying the elapsed time of the current title.
2. Displaying the remaining time of of the current title.
3. Displaying the elapsed time of the current chapter.
4. Displaying the remaining time of of the current chapter.
5. Time display off.

VCD Operation with Touch Keys

1. Insert a VCD disc into the disc slot hole.
The mode automatically switches to DVD mode and Playback starts.
2. Press the [OPEN/CLOSE] button to open the monitor.
3. Touch the screen to show the touch keys.

Pausing Disc Play

Touch [▶||] to pause playback. Touch [▶||] again to resume playback.

Stopping Disc Play

Touch [■] to stop playback. Touch [◀-] or [▶||] to resume playback.

Fast Forward Play

Touch [▶▶] for fast forward.
Each time [▶▶] is touched, the fast forward speed goes from 1X, 2X, 3X, 4X to normal playback.

Fast Backward play

Touch [◀◀] for fast backward.
Each time [◀◀] is touched, the fast backward speed goes from 1X, 2X, 3X, 4X to normal playback.

VCD operations with the remote control

Slow Playback

1. Press the [SLOW] button. Each time [SLOW] button is pressed, the slow playback speed goes from forward 2X, 4X, 8x, backward 2X, 4X, 8X to normal playback.
 2. Press [▶||] button to return to normal playback.
- *There is no sound during slow playback.

Frame by Frame Playback

1. Press the [STEP] button. Press the button again to show next image.
 2. Press the [▶||] button to return to normal playback.
- *There is no sound during frame by frame playback.

Repeat between A and B Scene

1. Press the [A-B] button at the beginning of the desired scene.
2. Press the [A-B] button again at the end of the desired scene.
The scene from A to B continues repeating.
3. Press the [A-B] button again to cancel REPEAT A-B.

Viewing Zoom

1. Each time the [ZOOM] button is pressed. The size of image changes from X1.5, X2, X3 to normal.
2. While zooming, press the [▲], [▼], [◀], or [▶] button to scroll the image.
3. Press the [▶||] button to return to normal playback.

Listening to CD with Touch Keys

1. Insert a Music CD disc into the disc slot hole.
The mode automatically switches to DVD mode and Playback starts.
2. Press the [OPEN/CLOSE] button to open the monitor.
3. Touch the screen to show the touch keys.

Pausing Disc Play

Touch [▶II] to pause playback. Touch [▶II] again to resume playback.

Stopping Disc Play

Touch [■] to stop playback. Touch [◀↵] or [▶II] to resume playback.

Fast Forward Play

Touch [▶▶] for fast forward.
Each time [▶▶] is touched, the fast forward speed goes from 1X, 2X, 3X, 4X to normal playback.

Fast Backward play

Touch [◀◀] for fast backward.
Each time [◀◀] is touched, the fast backward speed goes from 1X, 2X, 3X, 4X to normal playback.

Track Search

1. Touch [◀◀] to search the track number to backward.
2. Touch [▶▶] to search the track number to forward.

CD operations with the remote control

Repeat Play

Press the [REPEAT] button to select [ONE], [ALL] or [OFF].
[ALL]: All the track on the current disc plays repeatedly
[ONE]: The selected track on the current disc plays repeatedly.
[OFF]: Repeat play will be off.

Random Play

Press the [RANDOM] button to select [ON] or [OFF].
[ON]: All the tracks on the current disc plays in random order.
[OFF]: Random play will be off.

Repeat between A and B Section

1. Press the [A-B] button at the beginning of the desired section.
2. Press the [A-B] button again at the end of the desired section.
The section set from A to B continues repeating.
3. Press the [A-B] button again to cancel REPEAT A-B.

Listening to MP3 with Touch Keys

1. Insert an MP3 disc into the disc slot hole.
The mode automatically switches to DVD mode and Playback starts.
2. Press the [OPEN/CLOSE] button to open the monitor.
3. Touch the screen to show the touch keys.
4. Touch [◀], [▶], [▲] or [▼] to select the folder and touch [◀] key.
5. Touch [◀], [▶], [▲] or [▼] to select the file that you want to play and touch [◀] key.

Pausing Disc Play

Touch [▶||] to pause playback. Touch [▶||] again to resume playback.

Stopping Disc Play

Touch [■] to stop playback. Touch [◀] or [▶||] to resume playback.

Fast Forward Play

Touch [▶▶] for fast forward.

Each time [▶▶] is touched, the fast forward speed goes from 2X, 4X, 6X, 8X to normal play.

Fast Backward play

Touch [◀◀] for fast backward.

Each time [◀◀] is touched, the fast backward speed goes from 2X, 4X, 6X, 8X to normal playback.

Track Search

1. Touch [|◀◀] to search the track to backward.
2. Touch [▶▶|] to search the track to forward.

MP3 operations with the remote control

Repeat Play

Press the [REPEAT] button to select [REP-ONE], [FOLDER REPEAT] or [FOLDER].

[REP-ONE]: The selected track on the current folder plays repeatedly.

[FOLDER REPEAT]: All the tracks on the current folder play repeatedly

[FODER]: Repeat play will be off.

Random Play

Press the [RANDOM] button to select [RANDOM], [SHUFFLE-ON] or [FOLDER].

[RANDOM]: All the tracks on the current folder plays in random order.

[SHUFFLE ON]: The selected track on the current folder plays in random order.

[FOLDER]: Random play will be off.

Accessories

Main Unit

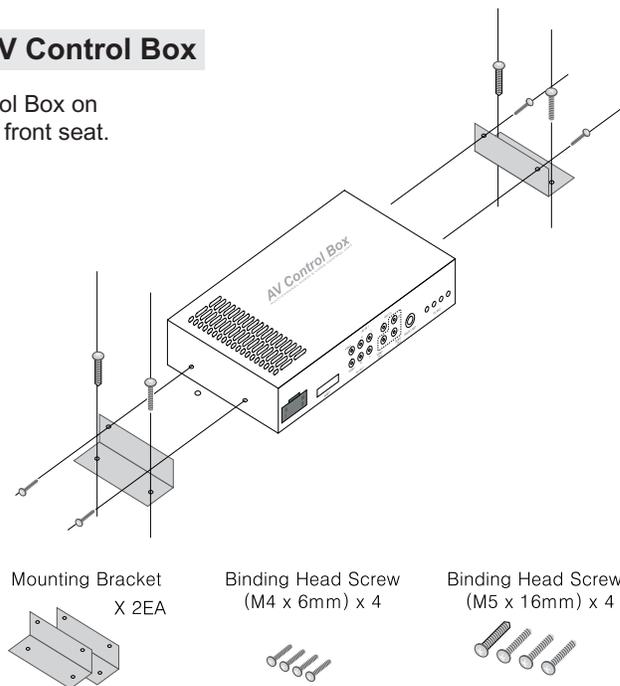
Remote control with a battery x each 1EA
NINET Cable x 1EA
Touch Ceramic Pen x1EA
Trim Plate x 1EA
Mounting Half Sleeve x 1EA
Mounting Bracket x1EA
Removal Key x 2EA
Hex Head Screw (M5 x 15mm) x 4EA
Binding Head Screw (#15 x 15) x 1EA
Spring Washer 5.2 x 1EA
Plate Washer 5.2x 1EA
Power Cable x 1EA
Cleaning Cloth x 1EA

AV control Box

Power Cable x 1EA
Mounting Bracket x 2EA
Binding Head Screw (M4 x 6mm) x 4EA
Binding Head Screw (M5 x 16mm) x 4EA

Installing the A/V Control Box

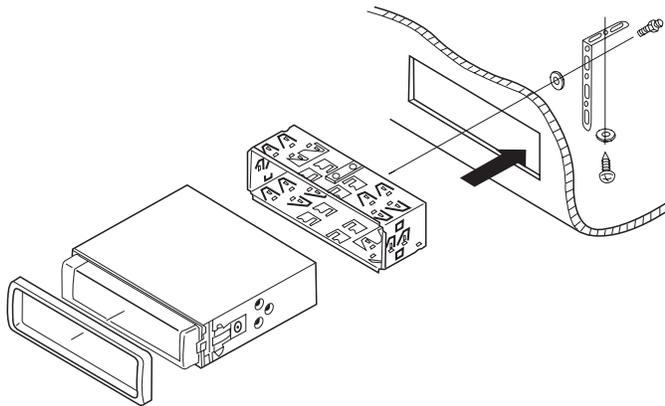
Install the A/V Control Box on somewhere under a front seat.



Installation

Installing the Unit

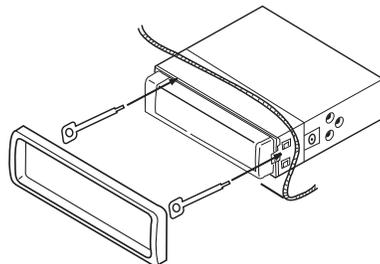
1. Place the universal mounting bracket (Half Sleeve) into the instrument panel and bend each stopper of the mounting bracket inward by a screwdriver.
2. Insert the unit into the mounting bracket until it locks after connecting the wires.
3. Mount the outer escutcheon so that all the hooks are locked.



Removing the unit

1. Unfasten the hex nut when the rear of the unit has been secured with it.
2. Remove the outer escutcheon.
3. Insert the 2 keys as the figure between the spring and the mounting bracket, then pull the unit out.

*Keep the 2 keys in safe. You cannot remove the unit without it.



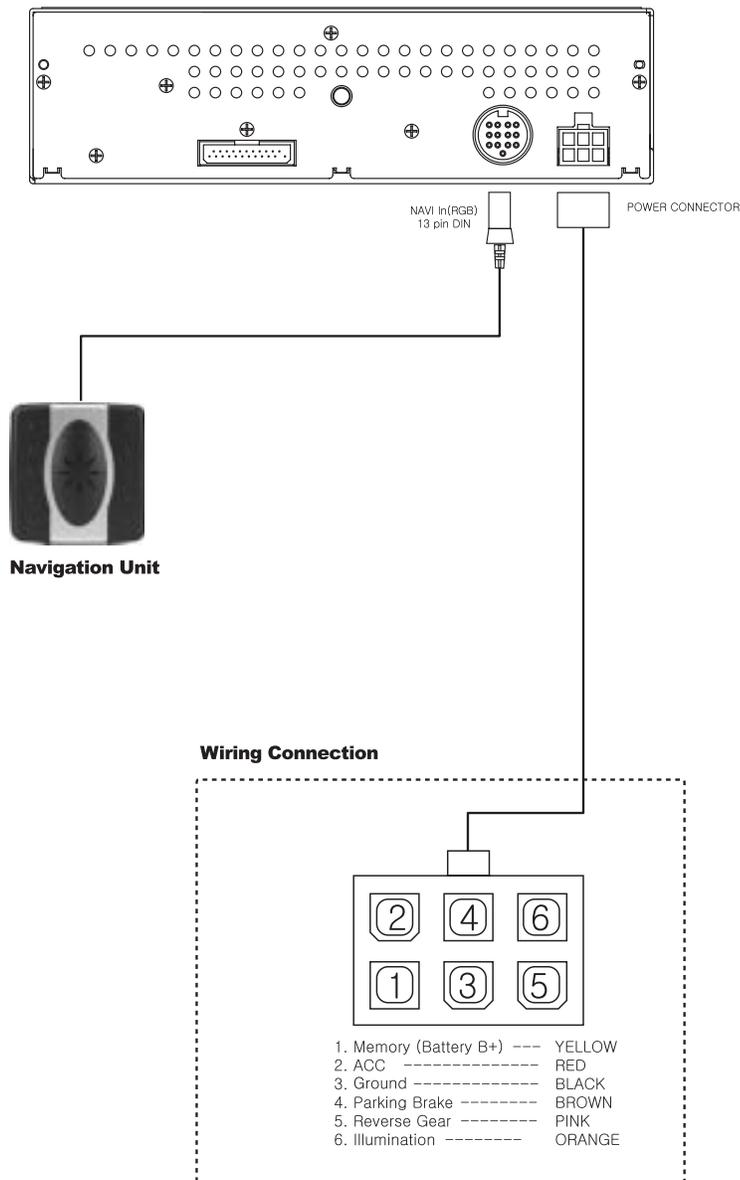
⚠ Cautions

1. Make sure to ground the unit to a negative 12V DC power supply
2. When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with wrong rating may cause the unit to malfunction.
3. To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
4. Do not use any screws except for the ones provided. Using improper screws may damage the unit.
5. If you experience problems during installation, consult your supplier.

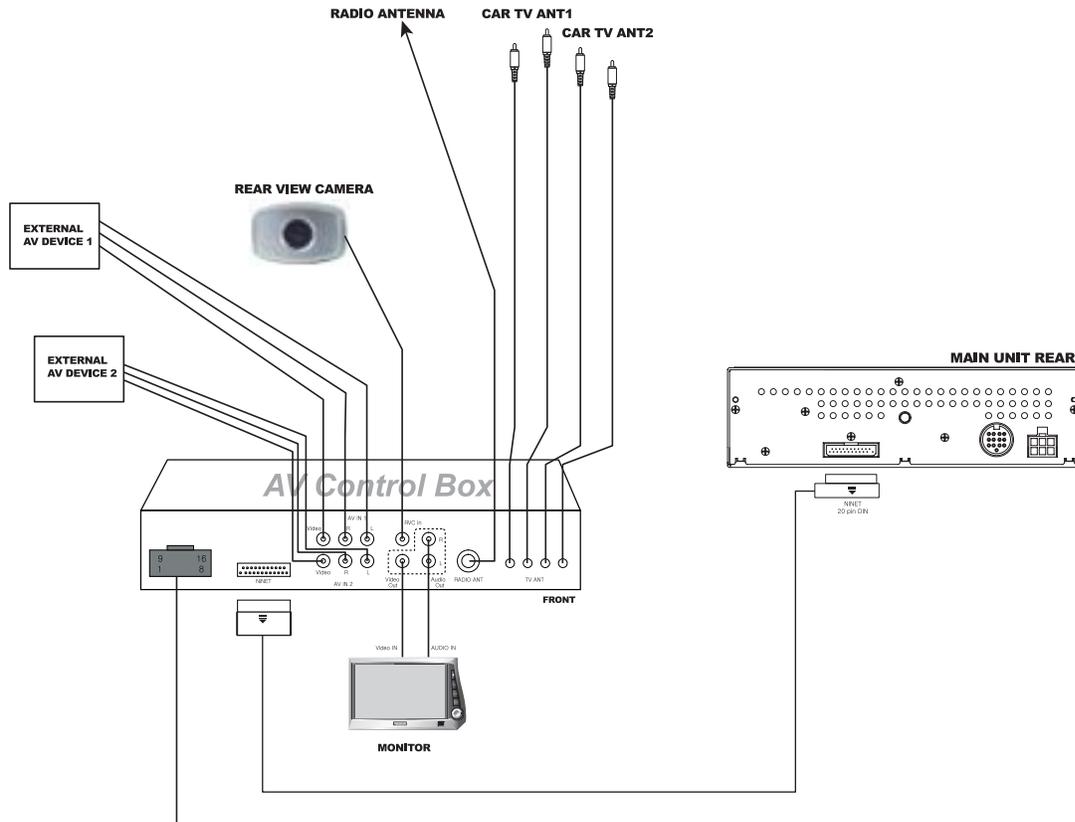
Wire Connection

⚠ Cautions

1. Be sure that the PARKING SENSOR WIRE must be grounded or opened.
If it is connected to ACC (B+). The unit can be damaged.
2. Do not ground the POWER ANTENNA wire. If it is grounded, the unit can be damaged.



Connection for AV Equipments

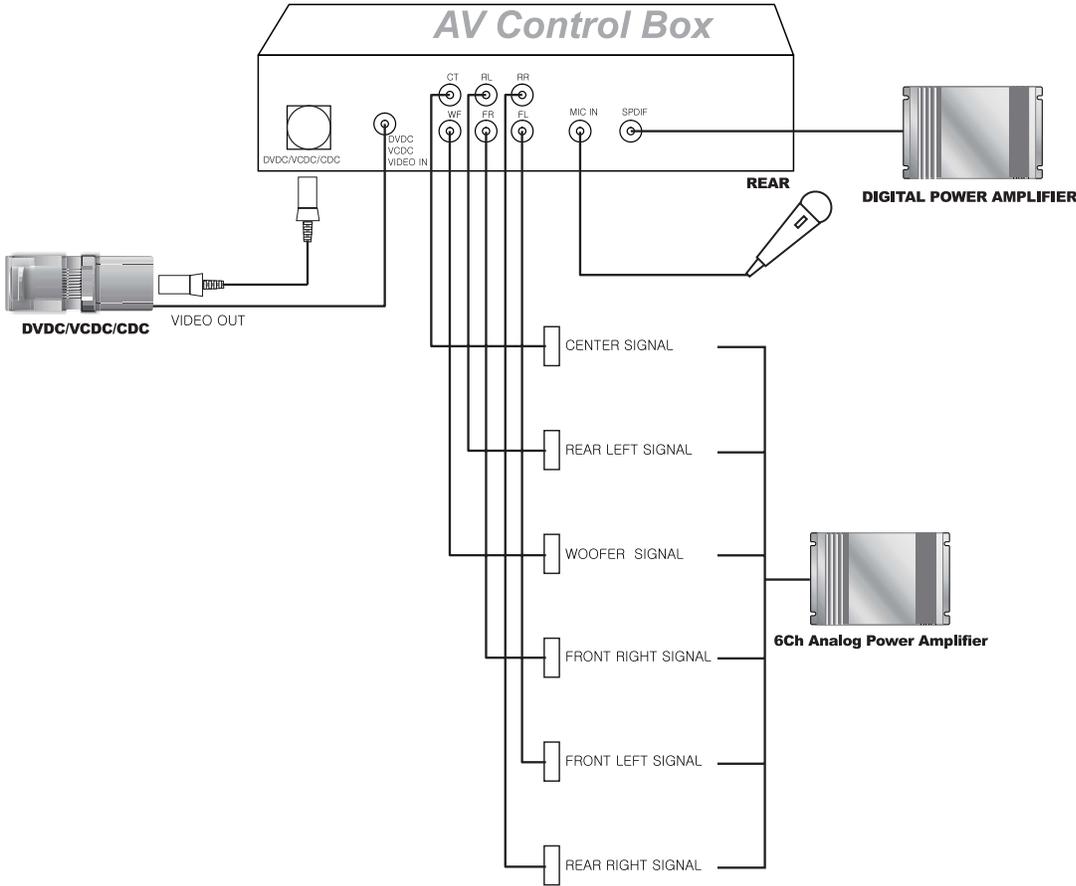


AV CONTROL BOX CONNECTION

NO.	FUNCTION	COLOR	NO.	FUNCTION	COLOR
1	Memory (Battery B+)	YELLOW	9	RR SPK -	VIOLET (B)
2	EXT-AMP	PINK	10	RR SPK +	VIOLET
3	ACC	RED	11	RL SPK -	GREEN (B)
4	GROUND	BLACK	12	RL SPK +	GREEN
5	GROUND	BLACK	13	FL SPK +	WHITE
6	CENTER SPK-	SKY BLUE(B)	14	FL SPK -	WHITE (B)
7	CENTER SPK+	SKY BLUE	15	FR SPK +	GRAY
8	AUTO ANT	BLUE	16	FR SPK -	GRAY (B)

MAIN CONNECTOR WIRE ARRANGEMENT

Connection for AV Equipments



Troubleshooting guide

What might appear to be malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

Problem	Possible Cause	Solution
The power does not turn	The fuse has blown.	After checking for short circuits in the wires, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same wire to the ignition as the battery wire.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit.
The monitor does not open / close.	The parking brake is not engaged.	For safety reasons, the monitor does not open while the vehicle is moving. Engaging the parking brake.
No television/video image appears	The unit is not connected to the parking brake detection switch.	Make proper connections according to "wire connection"
	The parking brake is not engaged.	For safety reasons no television/video images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed.
Television/video image appears black-white.	The color system is set incorrectly.	Please switch to correct color system from menu.
The screen is dark.	The unit is a location where temperature is low.	If the temperature of the monitor drops, the screen may appear darker when power is first turned on due to the characteristics of a liquid crystal panel. Wait a while Normal brightness will return.
The screen does not darken when the vehicle's lights are turned on.	The unit is set to auto dimmer.	When the unit is set to auto dimmer, it is not linked to the vehicle's light switch.
	The illumination wire has not been connected. (If manual dimmer is set)	Make proper connections according to "Wire connection."
AM/FM radio reception is poor and/or there is noise.	The TV antenna and vehicle's radio antenna are too close.	Separate the two antennas as far as possible. Turn off the main unit.
	Attenuator is turned on.	Turn off Attenuator.
No sound can be heard, or the volume is low.	The fader or balance settings are set all the way to one side.	Reconnect the input/output wires or the wiring harness correctly.
	The input/output wires or wiring harness are connected in correctly.	Reconnect the input/output wires or the wiring harness correctly.

Troubleshooting guide

Problem	Possible Cause	Solution
The sound quality is poor or distorted.	One of the speaker wires is being pinched by a screw in the car.	Reset the fader and/or balance settings.
	The speakers are not wired correctly.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended. The antenna control wire is not connected.	Pull the antenna out all the way. Connect the wire correctly, referring to the section on "connections".
The memory is erased when the ignition is turned off.	The battery wire has not been connected to the proper terminal.	Connect the wire correctly, referring to the section on "connections".
The sound/picture skips on a DVD/VCD/CD. A track will not play.	The disc is scratched or dirty.	Clean the disc.
	Random play has been selected.	Turn off random play.
The subtitle is not displayed.	The DVD disc being played does not contain the recording of subtitles.	The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles.
The voice(or subtitle) language cannot be changed.	The DVD disc being played does not contain the recording of more than one audio (or subtitle) language.	The voice (or subtitle) language cannot be changed when the DVD disc being played does not contain the recording of more than one voice(or subtitle) language.
The viewing angle cannot be changed.	The DVD disc being played does not contain the recording of more than one angle. You are attempting to switch the angle in a DVD section where more than one angle is not recorded.	The viewing angle cannot be changed when the DVD disc being played does not contain the recording of more than one angle. More than one viewing angle may be recorded only in limited sections in a disc.
Playback will not start even after a title is selected.	A viewing restriction (RATING) has been set for the disc.	Check the viewing restriction level(RATING) setting.
The voice or subtitle language selected in the initial setting is not played.	The DVD disc being played does not contain the recording of the selected voice or subtitle language.	level(RATING) setting. recording of the selected voice or subtitle language.
Remote control does not work	The battery runs out.	Replace the battery with one having the same rating.

Specifications

General	Power Requirement		14.4V DC (11~16V)	
	Current Consumption	DVD Monitor	2A	
		Junction Box	10A	
	Operating Temperature		-10°C ~ 60°C	
	Storage Temperature		-20°C ~ 80°C	
	Size	DVD Monitor	Total	178(W) X 50(H) X 190(D)
			Install	178(W) X 50(H) X 165(D)
			Weight	
JunctionBox		Total	257(W) X 40(H) X 187(D)	
	Weight			
Monitor Section	Display Size		7 Inch Wide	
	LCD Type		Transparent Type TN LCD	
	Drive Method		TFT Active Matrix	
	Number of Pixels		336,960(1,440 X 234)	
	Back Lighting		U-Shaped Cold Cathode Fluorescent Tube	
	Viseo System		NTSC/PAL Switchable	
Audio Section	Maximum Power Output		45W × 4ch 35W × 1ch (Center)	
	Pre Output Voltage		1V _{RMS} × 5chRMS1V	
	Subwoofer Output Voltage RMS		1.2V _{RMS}	
	Speaker Impedance		4Ω	
	Decoder		Linear PCM / Dolby Digital /Dolby Pro Logic / DTS	
	EQ		Classic/Rock/Pops/Jazz	
	3D Sound		Available	
Bass/Treble Control Range		±10dB		
DVD Player Section	System		DVD Video / VCD /CD / dtsCD / MP3	
	D/A converter		96klz / 24bit	
	Channels		5.1ch / 4ch Don Mix	
	MP3 Decoding Format		MPEG-1&2 Audio Layer 3	
FM Radio Section	Frequency Range		87.5 ~ 108MHz	
	Frequency Step	Manual Tuning	50klz	
		Seek Tuning	100klz	
	Usable Sensitivity		15dB μ(S/N=30dB)	
	Stereo Separation		25dB	
S/N Ratio		50dB		
AM Radio Section	Frequency Range	USA Band	530 ~ 1710klz	
		Europe Band	522 ~ 1620klz	
	Frequency Step	USA Band	10klz	
		Europe Band	9klz	
	Usable Sensitivity		35dB μ(S/N=20dB)	
Image Rejection Ratio		45dB		
TV Tuner Section	System		NTSC / PAL-BG / PAL-DK / PAL-I	
	Channel Coverage	NTSC	2 ~ 13 (VHF), 14 ~ 69 (UHF)	
		PAL	E2 ~ S41 (VHF), E21 ~ E69 (UHF)	
Antenna Input		4 ch Diversity (75Ω)		
Input/Output Section	Video Input Voltage		1.0Vpp / 75Ω	
	Video Output Voltage		1.0Vpp / 75Ω	
	Audio Input Voltage		1.0V / 22kΩ	