

clarion

Owner's manual

VX215A

DVD Multimedia Station With 6.2" Touch Panel Control

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1. FEATURES



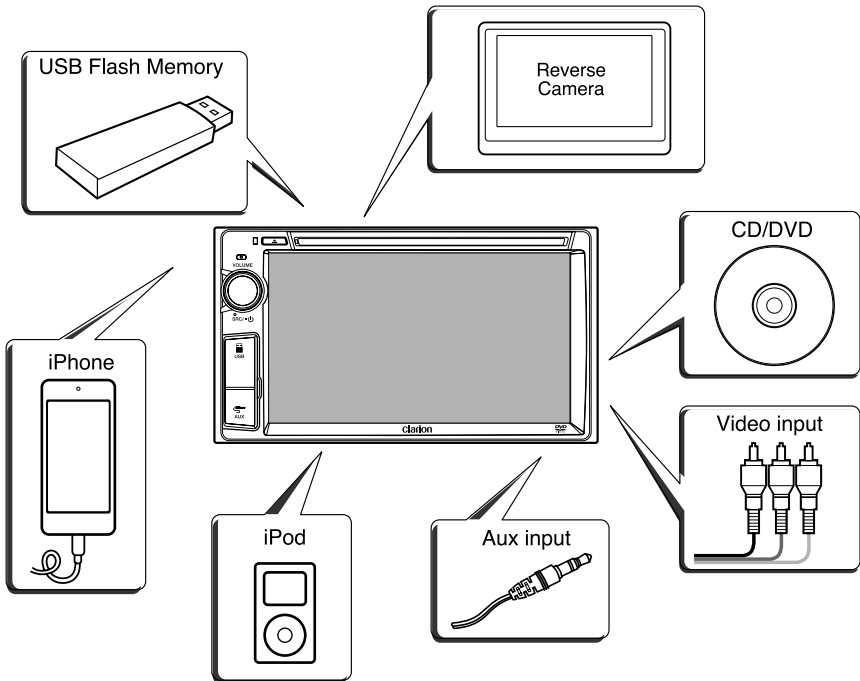
USB

MP3/WMA

AVI/MP4

RDS

Expanding Systems



Note:

- The items listed outside of the unit are the commercial products generally sold.

2. PRECAUTIONS

WARNING

- For your safety, the driver should not watch any video sources and/or operate the controls while driving. Please note that watching and operating any video sources while driving are prohibited by law in some countries. Also, while driving, keep the volume to a level at which external sounds can be heard.
- Do not disassemble or modify this unit. It may cause an accident, fire, or electric shock.
- Do not use this unit when a trouble exists, such as no screen content appears or no sound is audible. It may cause an accident, fire, or electric shock. For that case, consult your authorized dealer or a nearest Clarion service center.
- In case of a problem, such as any material has been entered in the unit, the unit gets wet, or smoke or strange smells come out of the unit, etc., stop using this unit immediately, and consult your authorized dealer or a nearest Clarion service center.
Using it in that condition may cause an accident fire, or electric shock.
- Use a fuse with the same specification only when replacing the fuse.
Using a fuse with a different specification may causes a fire.
- For the installation of this unit or a change in the installation, ask your authorized dealer or a nearest Clarion service center for safety. Professional skills and experiences are requires to do so.
- As the driver, you alone are responsible for your driving safety.
- In order to avoid a traffic accident, do not operate the system while driving.
- In order to avoid a traffic accident, operate the system only when the vehicle is stopped at a safe place and the parking brake is on.
- The software may contain inaccurate or incomplete information due to the passage of time, changing circumstances, and the sources of information used. Please respect current traffic conditions and regulations at all times while driving.
- Keep the amount of time spent viewing the screen while driving to a strict minimum.
- When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc (DVD/ CD) or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc (DVD/CD), wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
- Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
- 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.

3. CAUTIONS ON HANDLING

Operation Panel

For a longer service life, be sure to read the following cautions.

- The operation panel will operate properly in a temperature range of 0° to 60° C.
- Do not allow any liquids on the set from drinks, umbrellas etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the set in any way. Doing so may result in damage.
- Subjecting the operation panel to shocks may result in breakage, deformation or other damage.
- Do not let cigarettes burn the display.
- If a problem should occur, have the set inspected at your store of purchase.
- The remote control unit may not work if the remote control sensor is exposed to direct sunlight.
- In extremely cold weather, the display movement may slow down and the display may darken, but this is not a malfunction. The display will work normally when the temperature increases.
- Small black and shiny spots inside the liquid crystal panel are normal for LCD products.

USB Port

- The USB memory sticks must be recognized as "USB mass storage class" to work properly. Some models may not operate correctly.
When the memorized data is lost or damaged by any chance, Clarion shall not be liable for any damage.
When using an USB memory stick, we recommend that you backup your data stored on it before by using a personal computer etc.
- Data files may be broken when using USB memory sticks in the following situation: When disconnecting the USB memory stick or turning the power off during writing or reading data. When affected by static electricity or electric noise. Connect/disconnect the USB memory stick when it is not accessed.
- Connecting with the computer is not covered.

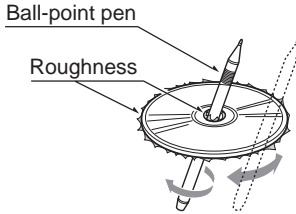
Cleaning

- **Cleaning the cabinet**
 - Use a soft, dry cloth and gently wipe off the dirt. For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, and then wipe again with a dry cloth.
Do not use benzene, thinner, car cleaner, etc., as these substances may damage the cabinet or cause the paint to peel. Also, leaving rubber or plastic products in contact with the cabinet for long periods of time may cause stains.
- **Cleaning the liquid crystal panel**
 - The liquid crystal panel tends to collect dust, so wipe it off occasionally with a soft cloth. The surface is easily scratched, so do not rub it with hard objects.

Handling Disc

● Handling

- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.



Never stick labels on the surface of the disc or mark the surface with a pencil or pen.

- Never play a disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a disc, you may not be able to get it back out of the DVD player or it may damage the DVD player.
- Do not use discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Do not use commercially available disc protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

● Storage

- Do not expose discs to direct sunlight or any heat source.
- Do not expose discs to excess humidity or dust.
- Do not expose discs to direct heat from heaters.

● Cleaning

- To remove fingerprints and dust, use a soft cloth and wipe in a straight line from the center of the disc to the circumference.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean discs.
- After using special disc cleaner, let the disc dry off well before playing it.

● On Discs

- Never turn off the power and remove the unit from the car with a disc loaded.

⚠ CAUTION

For your safety, the driver should not insert or eject a disc, opening the operation panel while driving.

⚠ About the registered marks, etc.

- "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

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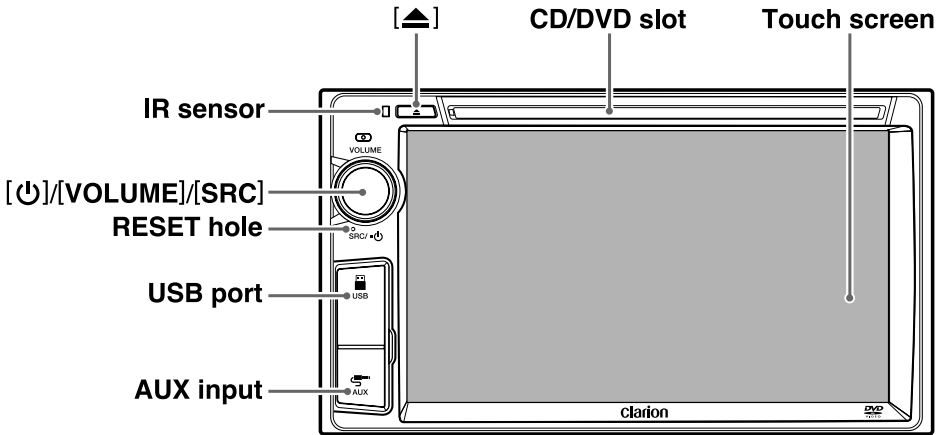
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Note:

- Reverse engineering or disassembly is prohibited.

4. PANEL CONTROLS

Main Unit



Names of the Buttons and Their Functions

CD/DVD slot

- CD insertion slot.

IR Sensor

- Receiver for remote control unit (operating range: 30° in all directions).

[▲] button

- Eject a CD/DVD when it is loaded in the unit.

[POWER]/[VOLUME]/[SRC]

- Press the knob to turn on power.
- Press and hold the knob to turn off the power.
- Rotate the knob left or right to decrease or increase the volume.

RESET hole

- Reboot the system.

USB port

- USB mass storage device/ iPod/ iPhone insertion.

AUX input

- 3.5mm Auxiliary jack insertion

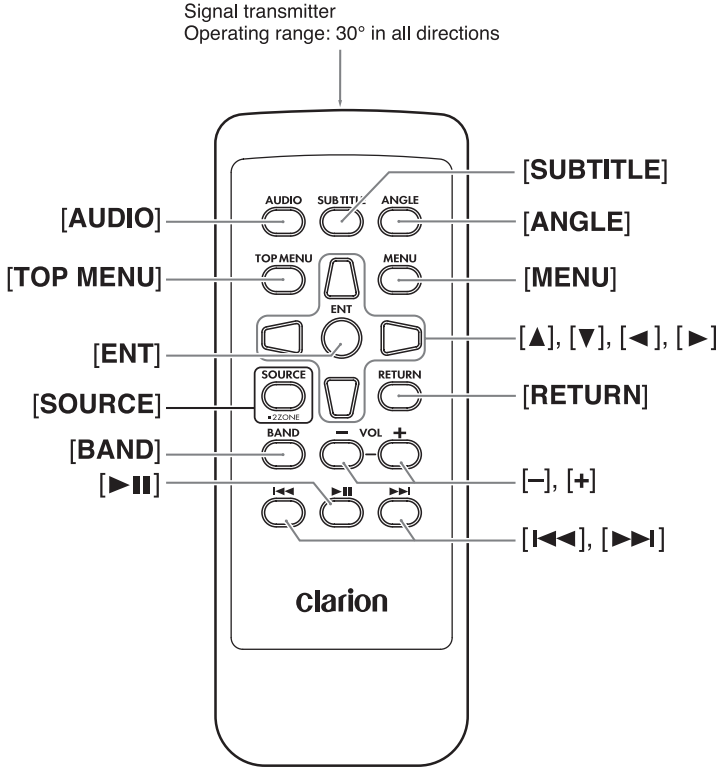
Video input

- Composite video connection (CVBS) jack insertion behind the unit.

Touch screen

- Resistive touch screen with 800x480 display resolution

5. REMOTE CONTROL

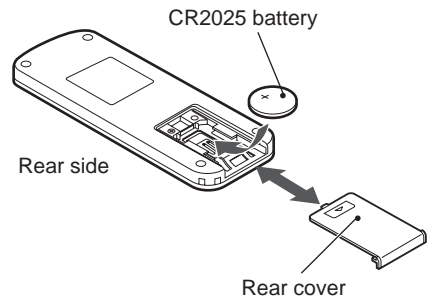


Inserting the Battery


- Turn over the remote control unit.
- Press the retention tab and pull out the battery tray and remove the old battery.
- Insert the new CR2025 battery and slide the battery tray back in the remote control the same direction that you removed it. Please ensure the tray is inserted in the correct direction.

Notes:

- Misuse may result in rupture of the battery, producing leakage of fluid and resulting in personal injury or damage to surrounding materials. Always follow these safety precautions:
- Use only the designated battery.
- When replacing the battery, insert properly, with +/- polarities oriented correctly.
- Do not subject battery to heat, or dispose of in fire or water. Do not attempt to disassemble the battery.
- Dispose of used batteries properly.



Remote Control Functions

Mode Button	Radio	CD/DVD/USB	iPod	AUX	Video In	Settings
[SRC]	Press the button to power on. Press for less than 1 second to switch among source modes. Press for more than 1 second to power OFF.					
[TOP MENU]	Toggle Home Screen (when the  button is displayed on the touch screen).					No function.
[RETURN]	No function.	Go to previous layer (Directory).	Go to previous layer (iPod Menu).	No function.	Exit Settings and return to previous mode.	
[MENU]	Enter/exit PTY Selection Menu (PTY must be turned ON).	Enter/exit Directory. Go to DVD menu for DVD.	Enter/exit iPod Menu.	No function.		
[BAND]	Switch reception band.	No function.				
[VOL+ / -]	Increase and decrease volume (in all modes).					
[ENT]	Select highlighted button.					
[▲], [▼]	Go to next/previous page in the PTY Selection Menu (PTY must be turned ON).	Go to next/previous page in the Directory.	Go to next/previous page in the iPod Menu.	No function.	Toggle between the top and bottom portions of the touch screen.	
[◀], [▶]	Go to the next/previous tab/button.					
[⏮], [⏭]	Move preset channels up and down.	Move tracks/pictures/videos/chapters up and down. Press for more than 1 second to perform Fast-forward/Fast-backward.		No function.		
[▶⏮]	No function.	Switch between playback and pause.		No function.		
[AUDIO]	No function.	Toggle available audio (DVD video only).	No function.			
[SUBTITLE]	No function.	Toggle available subtitles (video only).	No function.			
[ANGLE]	No function.	Toggle available angles (DVD video only).	No function.			

6. BASIC OPERATIONS

Turning on/off the power

Note:

- Be careful about using this unit for a long time without running the engine. If you drain the car's battery too much, you may not be able to start the engine and this can reduce the service life of the battery.

- Press the [⏻] knob to turn on the power.
- It automatically remembers its last source mode and will automatically switch to display that mode.
- Press the [⏻] button for more than 1 second to turn off the power of the unit.



Switching Source Modes

- Press the [SRC] button to change the source mode.
- Each time you press the [SRC] button, the source mode changes in the following order:

Radio mode → **CD/DVD mode** → **USB mode** → **iPod mode** → **Video-in mode** → **AUX mode** → **Radio mode...**

Notes:

- The CD/DVD, USB, and iPod modes will be skipped if there is no media in the unit.

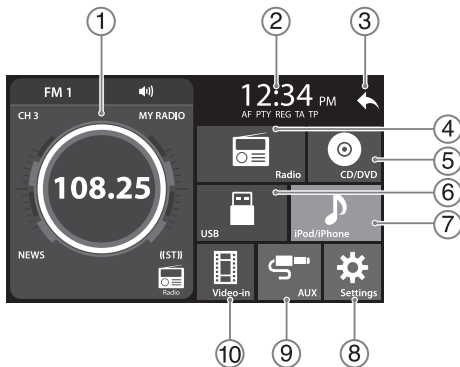
- The Home Screen allows access to each source mode directly.
- Press the  button on the touch screen to access the Home Screen.
- Press the  button on the touch screen to exit the Home Screen.

Notes:

- If the CD/DVD mode is selected when no disc is inserted, the display shows "NO DISC".
- If the USB mode is selected when no device is inserted, the display shows "NO USB".
- If the iPod mode is selected when no device is inserted, the display shows "NO iPod".
- Refer to "Home Screen" for more details.

Home Screen

- Current Mode Display. Differs with each source mode.

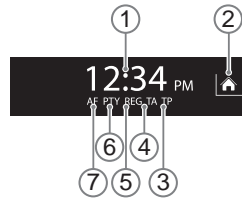


- Clock/Indicators Display.
- Exit Home Screen Button.
- Radio – Press the button to display the Radio mode.
- CD/DVD—Press the button to display the CD/DVD mode.
- USB—Press the button to display the USB mode.
- iPod— Press the button to display the iPod mode.
- Settings—Press the button to display Settings.
- Aux—Press the button to display the Auxiliary mode.
- Video-in—Press the button to display the Video input mode.

Clock and Indicators Display

The clock is displayed on the top right corner of the touch screen. To adjust the clock, refer to "Settings Operations".

The RDS indicators are displayed on the top right corner of the touch screen, below the clock display. To adjust RDS settings, refer to "RDS Operations".



- Clock Display
- Home Screen Button
- TP indicator
- TA indicator
- REG indicator
- PTY indicator
- AF indicator

Adjusting the Volume

Turning the [VOLUME] knob clockwise increases the volume; turning it counter-clockwise decreases the volume. The volume bar will be displayed in the top right corner of the touch screen.




- * The volume level is from 0 (minimum) to 33 (maximum). The factory default setting for this volume is "13".

Basic Operations


Radio Illumination

The radio illumination can be dimmed using the vehicle illumination dimming switch.

Mute Function

Press the  button on the left hand display, when available, to activate the mute function. Press the button again to release mute.


Note:

- The  button is not available during Settings.

Auxiliary Audio Input



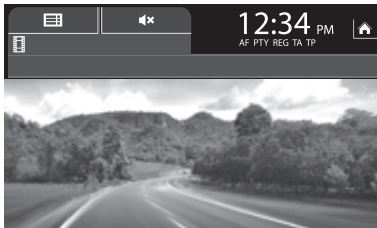
This system has AUX input at the front panel where you can listen to sounds and music from external devices connected to this unit.

1. Connect the external music player to the AUX input.
2. Press the [SRC] button or press the  button in the Home Screen and select the AUX mode to access the AUX function.


Note:

- Use only 3.5mm stereo jack for the AUX input.

Video Input Function



This system has a video input at the back of the unit where you view videos from external devices connected to this unit.

1. Connect the external video device to the video input.
2. Press the [SRC] button or press the  button in the Home Screen and select the Video-in mode to access the video input function.

Note:

- Use a composite video connection (CVBS) jack for the video input.

Parking Brake Safety

The video at the unit can only be displayed when the parking brake is enabled (when the car is parked). The audio portion of the video can still be played, but a blank screen will be displayed in place of the video display.



Reverse Camera View

When the vehicle is set to reverse gear, the unit will display the reverse camera view.

All video display will be disabled during reverse camera view.


The system will return to the previous display after the reverse gear is released.

Note:

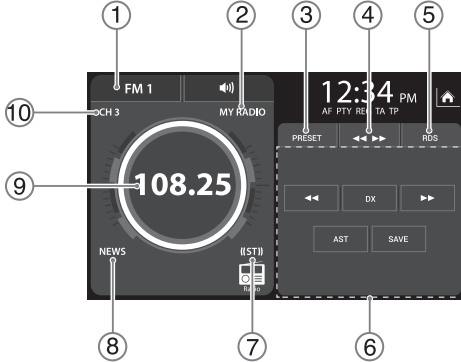
- Reverse camera view is only available when the unit is powered ON.

7. RADIO MODE OPERATIONS

Listening to the Radio

1. Press the **[SRC]** button or press the  button on the Home Screen to select Radio mode. The display will change accordingly.
2. Press the **[FM1/FM2/FM3/AM]** button to select one of the designated bands such as FM1, FM2, FM3 or AM. Each time the button is pressed, the display will change in the following order:

FM1 → FM2 → FM3 → AM → FM1...




1. FM1/FM2/FM3/AM Button
2. Station Name Display
3. PRESET Tab
4. SEEK Tab
5. RDS Tab
6. Tab Controls
7. Stereo Indicator Display
8. PTY Name Display
9. Frequency Display
10. Channel Display

Seek Tuning





1. Seek Up Button
2. Save Button
3. DX/LOC/MANU Button
4. Autostore Button
5. Seek Down Button

1. Press the  button to select the SEEK Tab. The tab controls will change accordingly.
2. Press the **[DX/LOC/MANU]** button to select the seek mode. The button display will change accordingly.


Every time the **[DX/LOC/MANU]** button is pressed, the display will change:

DX → LOC → MANU → DX...



Notes:

- There are 2 types of seek tuning: DX Seek and LOCAL Seek.
 - DX Seek can automatically tune in to receivable broadcast stations; LOCAL Seek can tune in to only broadcast stations with good reception sensitivity.
3. Press the  button to perform search in the direction of higher frequencies.
 4. Press the  button to perform search in the direction of lower frequencies.

Manual Tuning


1. Press the  button to select the SEEK Tab. The tab controls will change accordingly.
2. Press the **[DX/LOC/MANU]** button to select the MANU Seek mode.

Note:

- Manual Seek allows for manual tuning to any frequency regardless of broadcast.
3. Press the  button to perform a single step in the direction of higher frequencies.
 4. Press the  button to perform a single step in the direction of lower frequencies.

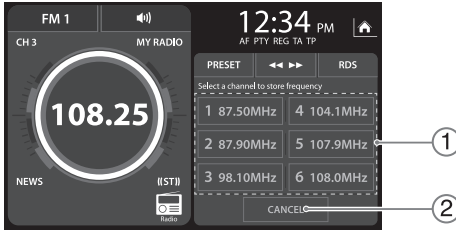
Autostore

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 receivable stations cannot be found then the remaining memory locations will retain the previous station selections.

1. Press the  button to select the SEEK Tab. The tab controls display will change accordingly.
2. Press the **[FM1/FM2/FM3/AM]** button to select the desired band.
3. Press the **[AST]** button to begin auto store. The 6 stations with the strongest reception are stored automatically into the preset channels.

Radio Mode Operations

Storing Preset Memory



1. Preset Channel Buttons.
2. Cancel Button.

Preset memory function can store up to 24 stations: Six stations each for FM1, FM2, FM3 and AM.

Note:

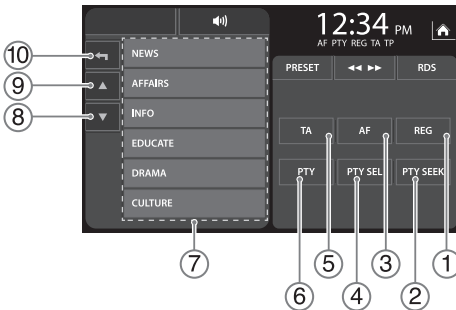
- The present memory will be reset a few hours after disconnecting the vehicle battery.

1. Press the [FM1/FM2/FM3/AM] button to select the desired band.
2. Press the << / >> button to tune into a desired station.
3. Press the SAVE button to store the current frequency.
4. Press the CANCEL button to cancel the storing process.
5. Press one of the 6 [PRESET] buttons to store the current station into the preset memory. The tab controls display will return to the previous layout.

Recalling a Preset Station

1. Press the PRESET button to select the PRESET Tab. The tab controls will change accordingly.
2. A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory. Pressing the corresponding [PRESET] button recalls the stored radio frequency automatically.

8. RDS OPERATIONS



1. REG Button.
2. PTY Seek Button.
3. AF Button.
4. PTY Selection Button.
5. TA Button.
6. PTY Button.
7. PTY List.
8. Page Down Button.
9. Page Up Button.
10. Return Button.

Storing Preset Memory

Press the RDS button to select the RDS Tab. The tab controls will change accordingly.

This unit has a built-in RDS decoder system that supports broadcast stations transmitting RDS data.

This system can display the name of the broadcast station being received (PS) and can automatically switch to the broadcast station with the best reception as you move long distances (AF switching).

Also, if a traffic announcement or programme type is broadcast from an RDS station, no matter what mode you are in, this broadcast is received. Additionally, if EON information is received, this information enables automatic switching of other preset stations on the same network and interruption of the station being received with traffic information from other stations (TP). This function is not available in some areas.

When using the RDS function, always set the radio to FM mode.

The RDS feature consists of:

- AF : Alternative Frequency
- PS : Programme Service Name
- PTY : Programme Type
- EON : Enhanced Other Network
- TP : Traffic Programme
- TA : Traffic Announcement

* RDS interrupt does not function during AM radio reception.

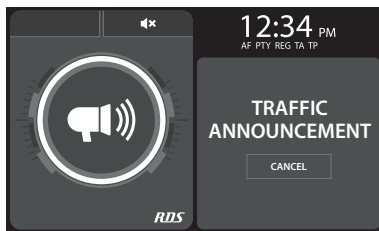
* When set receives RDS signal, and can read PS data, PS appears in the display.

RDS Operations

TA (Traffic Announcement)

In the TA standby mode, when a traffic announcement broadcast starts, the traffic announcement broadcast is received as top priority regardless of the source mode so you can listen to it. Traffic programme (TP) automatic tuning is also possible.

- * This function can only be used when "TP" is lit in the display. When "TP" is lit, this means that the Radio Data System broadcast station being received has traffic announcement programmes.



• Turning on TA

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. If you press the **TA** button when "TP" only is lit in the display, "TA" and "TP" will light up in the display and the unit is set to TA standby mode until a traffic announcement is broadcast.
3. When a traffic announcement broadcast starts, the display will change.

• Turning off TA

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. During TA standby mode, press the **TA** button. The "TA" indicator in the display goes off and TA standby mode is cancelled.
3. If "TP" is not lit, press the the **TA** button to search for a TP station.

• Cancelling TA Interrupt

1. If you press the **CANCEL** button while a traffic announcement broadcast is being received, the traffic announcement broadcast reception is cancelled and the unit returns to the TA standby mode.

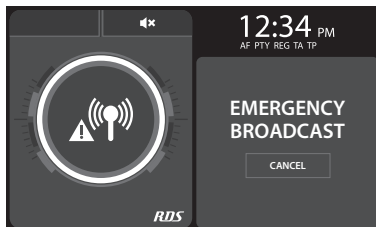
• Searching for a TP station

1. When "TP" is not lit, if you press the **TA** button, "TA" in the display lights up and the unit automatically searches for a TP station.
2. If a TP station is not received the unit continues the search operation. Press the **CANCEL** button to stop the TP station searching.

Emergency Broadcast

If an emergency broadcast is received, all the source mode operations are stopped. The display will change accordingly.

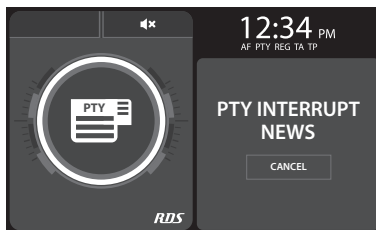
1. If you press the **CANCEL** button while an emergency broadcast is being received, the emergency broadcast reception is cancelled and the unit returns to the previous mode.



PTY (Programme Type)

This function enables you to listen to a broadcast of the selected programme type even if the unit is on a source mode other than radio.

- * Some countries do not have PTY broadcast.
- * During TA standby mode, a TP station has priority over a PTY broadcast station.



• Turning on PTY

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. If you press the **PTY** button, "PTY" in the display lights up and PTY standby mode is turned on. When the selected PTY broadcast starts, the display will change and the PTY item name appears in the display

• Turning off PTY

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. During PTY standby mode, press the **PTY** button. The "PTY" indicator in the display goes off and PTY standby mode is cancelled.

• Cancelling PTY Interrupt

1. If you press the **CANCEL** button while a PTY interrupt is being received, the PTY interrupt is cancelled and the unit returns to the PTY standby mode.

RDS Operations

• Selecting PTY

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. During PTY standby mode, press the **PTY SEL** button to enter the PTY Selection Menu. The left display will change accordingly.
3. There are 29 PTY items that can be selected.

PTY item	
ENGLISH	CONTENTS
News	News
Affairs	Today's events
Info	Information
Sport	Sports
Educate	Education
Drama	Drama
Culture	Culture
Science	Science
Varied	Variety
Pop M	Pop music
Rock M	Rock music
Easy M	Easy music
Light M	Light music
Classics	Classics
Other M	Other music
Weather	Weather
Finance	Finance
Children	For children
Social	Social
Religion	Religion
Phone In	Phone in
Travel	Travel
Leisure	Leisure
Jazz	Jazz
Country	Country
Nation M	Nation music
Oldies	Oldies
Folk M	Folk music
Document	Documentaries

• Selecting PTY

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. During PTY standby mode, press the **PTY SEEK** button to search for a PTY broadcast in the direction of a higher frequency.

* If no station with the selected PTY broadcast can be received, the unit returns to the previous receiving station.

Volume Setting of TA, Emergency Broadcast, and PTY

The volume for TA, emergency broadcast, and PTY interrupts can be set during their respective interrupts.

* The factory default setting is "15".

During TA, emergency broadcast or PTY interrupt, turn the **[VOLUME]** rotary knob to set the volume to the desired level (0 to 33).

* When the interrupt ends, volume returns to the level it had before interrupt.

AF (Alternate Frequency) Function

The AF function switches to a different frequency on the same network in order to maintain optimum reception.

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. Press the **AF** button and "AF" lights up in the display screen. AF function is turned on.
3. When AF function is turned on, press the **AF** button and the "AF" on the display screen is turned off. AF function is turned off.

REG (Regional Programme)

When the REG function is ON, the optimum regional station can be received. When this function is OFF, if the regional station area switches as you drive, a regional station for that region is received.

1. Press the **RDS** button to select the RDS Tab. The tab controls will change accordingly.
2. Press the **REG** button and "REG" lights up in the display screen. REG function is turned on.
3. When REG function is turned on, press the **REG** button and the "REG" on the display screen is turned off. REG function is turned off.

Notes:

- This function is disabled when a national station such as BBC R2 is being received.
- The REG function ON/OFF setting is only valid when the AF function is ON.

9. CD/USB MODE OPERATION

Discs

Playable discs

This DVD video player can play the following discs.



Precautions when Creating MP3 files

• Usable sampling rates and bit rates:

1. MP3 : Sampling rate 8 kHz-48 kHz,
Bit rate 16 kbps-320 kbps/VBR
2. WMA : Sampling rate 8 kHz-48 kHz,
Bit rate 16 kbps-320 kbps/VBR
3. AAC : Sampling rate 8 kHz-48 kHz,
Bit rate 16 kbps-320 kbps/VBR

• File extensions

- Always add a file extension “.MP3” or “.mp3” to a MP3 file, and “.WMA” or “.wma” to a WMA and “.M4A” or “.m4a” to a AAC file extension by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played. In addition, if you use upper case and lower case letters (capital and small letters) mixed for file extensions, normal play may not be possible.
- Audio files other than MP3/WMA/AAC data cannot be played.
- Playing files with a format not supported will be skipped.

• File and disc not supported

Files and discs with following extensions are not supported: *.AAC, *.DLF, *.M3U, *.PLS, *.MP3 PRO files, files with DRM, open session discs.

To disable DRM (Digital Rights Management)

When using Windows Media Player 10/11, click on TOOL → OPTIONS → RIP MUSIC tab, then under Rip settings, unclick the check box for COPY PROTECT MUSIC. Then, reconstruct files.

Notes:

- Personally constructed WMA files are used at your own responsibility.
- Disabling DRM can be done if the file is ripped from CD.

• Logical format (File system)

- When writing an MP3/WMA/AAC file on a disc, please select “ISO9660 level 1 or level 2 (without including expansion format)” as the writing software format. Normal playback may not be possible if the disc is recorded on another format.
- The folder name and file name can be displayed as the title during MP3/WMA/AAC play.

• Entering File and Folder Names

If the file name and folder name contains the character other than code character list might cause the file and folder names displayed incorrectly.

Picture File extensions

Always add a file extension “.JPEG” or “.JPG” to picture file by using single byte letters. If you add a picture file extension other than specified or forget to add the file extension, the file cannot be played.

Playable video files

This system can play video files stored in the disc/USB memory device.

*.avi files

- Format: Xvid
- Resolution: 720*480/576
- Audio format: WMA/PCM/LPCM/AAC LC/MPEG Audio(MP1/2/3)

*.mp4 files

- Format: Xvid
- Resolution: 720*480/576
- Audio format: WMA/PCM/LPCM/AAC LC/MPEG-Audio(MP1/2/3)

Note:

- Improper formats of the supported video files may result in irregular playback behavior.

File extensions

Always add a file extension “.AVI” or “.MP4” to video file by using single byte letters. If you add a video file extension other than specified or forget to add the file extension, the file cannot be played.

Note:

- Larger files might take a longer time to load.

About CD

- Logical format (File system)

Mode	CD
File System	ISO 9660 Level 1, 2, Romeo or Joliet

CAUTION

- Do not try to put your hand or fingers in the disc insertion slot. Also never insert foreign objects into the slot.
- Do not insert discs where adhesive comes out from cellophane tape or a rental CD label, or discs with marks where cellophane tape or rental CD labels were removed. It may be impossible to extract these discs from the unit and they may cause the unit to break down.

Notes:

- Some CDs recorded on CD-R/RW mode may not be usable.
- PBC feature for VCD is not supported in this unit.


CD/USB Mode Operations

Note on region numbers

- The DVD video system assigns a region number to DVD video players and DVD discs by sales area. DVD video players sold in Asia can play back DVD discs with the region number "ALL", "3" or any combination of numbers that also incorporate a "3".
- The DVD video region number is marked on the disc jacket as shown below.



Watching/Listening to a disc

If a disc has been loaded, press the [SRC] button or press the  button to select CD/DVD mode.

Notes:

- When CDDA disc or DVD is loaded, the play mode is automatically engaged.
- When CDMP3 disc is first time loaded, the system will go to directory display.
- If you reinsert the same disc that you ejected last, the system will playback where it left off.


Loading a CD

Insert a CD into the center of the CD insertion slot with the labeled side facing up. The "READING" appears in the display and starts playing.

Notes:

- Do not insert another disc forcefully.
- Discs not bearing the logo mark and CD-ROMs cannot be played by this unit.
- Some CDs recorded in CD-R/CD-RW mode may not be usable.
- 8cm compact disc is not supported. Do not attempt to insert the disc into the CD slot.

Eject the CD

Press the  button, then the disc will be ejected. The unit will direct return to Tuner mode and eject icon will showed on the left side of the clock display.

Notes:

- If you force a CD into CD slot before auto reloading, this can damage the CD.
- If a CD (12 cm) is left in the ejected position for 15 seconds, the CD is automatically reloaded (Auto reload).
- If you leave the ejected CD without removing it, it will be drawn into the unit automatically after about 15 seconds.

USB

This system can play audio files (MP3/WMA/AAC) stored in an USB memory which is recognized as "USB Mass Storage Class device". You can use your USB memory as an audio device by simple copying desired audio files into it.

Mode	USB
File System	FAT16, FAT 32

Note:

- This system will not operate or may operate improperly with some USB memory.

• About USB memory device

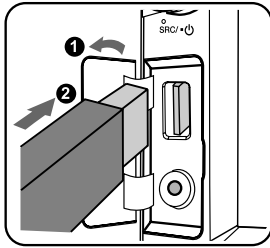
- USB is an acronym for Universal Serial Bus, and refers to an external bus standard supporting data rates of 12 Mbps.
- This unit is compatible with USB 1.1/2.0/3.0 with maximum data transfer rates of 4800 Mbps.
- USB memory devices that can be played by connecting to the unit's USB cable are limited to those recognized as "USB mass storage class devices"; operation is not guaranteed with all USB memory devices.
- Devices compatible with "USB Mass Storage Class" can be used merely by connecting to the host device, without need for special drivers or application software.
- Consult the manufacturer of your USB memory device for information regarding whether it is supported by "USB Mass Storage Class" standards.
- To prevent the accidental loss of data, always back up important data on your computer.
- This unit does not support connections to a computer. In addition, connections made through a USB hub device are also not supported.
- When a USB memory device is composed of two or more drives, only the first drive will be detected.
- USB memory devices with security functions cannot be played.
- The order in which tracks are recorded may differ depending on the USB memory device connected (the actual playback order may not be the same as that indicated on your computer's display).

Hot plugging function

This unit has the ability to recognize the changes of connecting and disconnecting an USB memory device.

CD/USB Mode Operations

Connecting a USB memory device




1. Connect the USB memory device into the port with the correct direction.
2. Always insert the USB memory device fully into the port. Incomplete connections may cause the USB memory device not be recognized.
3. Depending on the number of tracks recorded, some amount of time may be required until all tracks are read into the unit. It will take some time to read the USB memory device before playback begins.
4. USB memory devices may have different shape depends on brands. Some USB memory devices may not be able to plug into the port due to the shape design. Please use an extension cable instead.
5. Please reconnect the USB memory device when it cannot be detected properly.

Notes:

- Do not forcibly connect the USB memory device to the port with incorrect direction as this will damage the USB memory device as well as the USB slot.

Watching/Listening to a track with USB memory device

1. If a USB memory device have been inserted, press [SRC] or press the  button to select the USB mode.

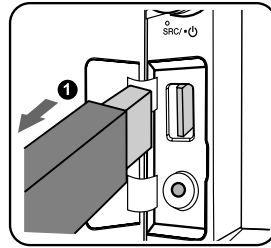
Notes:

- When USB memory device is first time loaded, the system will go to directory display.
- If you reconnect the same device that you disconnected last, the system will playback where it left off.

CAUTION

- For safety driving purpose, avoid inserting the USB drive directly into the USB port.
- Please use an USB extension cable instead for USB connection.
- Always backup and save important data on your computer.

Unplug the USB memory device

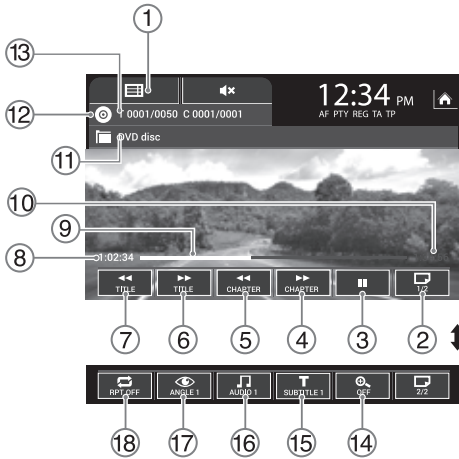


1. Remove the USB memory device from the USB slot during playback, system will direct return to Tuner mode.
2. Remove the USB memory device from the USB slot during reading, system will show "NO USB". Press the screen to return to Tuner mode.

Notes

- If the device has no supported files, "NO FILE" is displayed.
- If you reconnect the same device that you disconnected last, the system will resume the last playback position.

10. DVD VIDEO PLAYER OPERATIONS



1. Directory Button
2. Toggle Page Button
3. Play/ Pause Button
4. Next Chapter/ Fast Forward Button
5. Previous Chapter/ Fast Backward Button
6. Next Title Button
7. Previous Title Button
8. Current Playtime
9. Playtime Progress Bar
10. Total Playtime
11. Directory Path Display (DVD)
12. Current Mode Display
13. Title Chapter Display
14. Zoom Operation Button
15. Subtitle Switching Button
16. Audio Channel Switching Button
17. Angle Switching Button
18. Repeat Button

Showing DVD video mode screen

After disc is loaded, the play mode is automatically engaged.

Playing Video Files in DVD

- If video file is playing, touch the screen of the playing video to display Operation buttons.
- The display will return to the playback screen if you do not touch the screen for 10 seconds.
- During DVD menu, you can directly select the option from DVD menu by pressing the option on the screen.

Play/Pause Playback

1. Press the button to pause during playback.
2. Press the button to resume playback.

Skip (Search) a Chapter

Press or button during playback. Chapters are skipped down or up from current locations, as many times as the button is pressed, and playback start.

Skip (Search) a Title

Press or button during playback. Title are skipped down or up from current locations, as many times as the button is pressed, and playback start.

Fast Forward/Fast Backward Operation

Press or button and hold more than 1 second to start fast backward or fast forward during playback. Release the button will continue playing with normal speed.

Note:

- The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

1. Press the button to select the repeat status for playback. The text will change accordingly.
2. Every time the button is pressed, the text will change as:

RPT OFF → CHAPTER RPT → TITLE RPT → RPT OFF

• CHAPTER RPT (Chapter Repeat)

The current playing chapter will be played repeatedly. The button will be displayed as "CHAPTER RPT".

• TITLE RPT (Title Repeat)

The current playing title will be played repeatedly. The button will be displayed as "TITLE RPT".



• RPT OFF (Repeat Off)

Disengage the unit from repeat play. During repeat off mode, the button will be displayed as "RPT OFF".

DVD Video Player Operations




Switching Audio

On discs in which two or more audios or audio languages have been recorded, you can switch among the audio languages during playback.

1. Showing the button menu, press the  button during playback.
2. Each time you press the button, you can switch among the audio languages.
3. It may take time to switch among audio.
4. Depending on the disc, up to 9 kinds of audios may be recorded. For details, see the mark of the disc:  Indicates that 8 audios have been recorded).
5. When the power is turned on and when the disc is changed to a new one, the language has not been recorded on disc. The language is specified on the disc.
6. Depending on the disc, switching may be completely impossible or impossible on some scenes.



Switching Subtitles

On the DVD discs in with two or more subtitle languages have been recorded, you can switch among the subtitle languages during playback.



1. Showing the button menu, press the  button to select a subtitle during playback. Each time you press the button, you can switch among subtitle.
It may take time to switch among subtitles. Depending on the disc, up to 32 kinds of subtitles may be recorded. For details, see the mark of the disc:  indicates that 8 kinds of subtitles have been recorded).
Depending on the disc, switching may be completely impossible or impossible on some scenes.
2. To turn off subtitles, repeat pressing the  button until subtitles are turned off.

Switching Angle

On the DVD discs in with video images have been recorded in two or more angles, you can switch among the angles during playback.

1. Showing the button menu, press the  button to select an angle during playback. Each time you press the button, you can switch among angle.
2. It may take time to switch among angles. Depending on the disc, up to 9 angles may be recorded. For details, see the mark of the discs:  indicates that 2 angles have been recorded).
3. Depending on the disc, angles may switch smoothly or switch with a momentary still image.
4. Depending on the disc, switching may be completely impossible or impossible on some scenes.
5. Depending on the disc, scenes recorded in two or more angles may be played back.

Zoom Operation

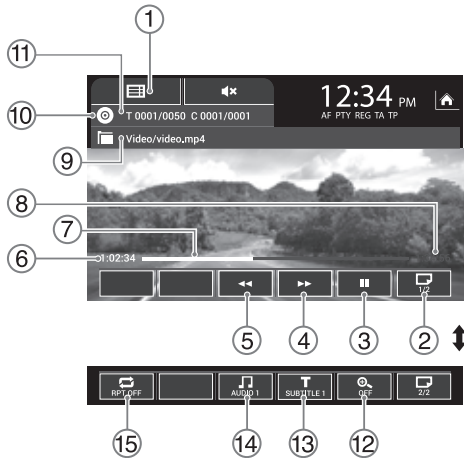
1. Press the  button to zoom the picture. The text will change accordingly.
2. Every time the  button is pressed, the text will change as:
OFF → ZOOM 2x → ZOOM 3x → ZOOM 4x → ZOOM 5x → ZOOM 1/2 → ZOOM 1/3 → ZOOM 1/4 → OFF
3. During Zoom ratio of 2x, 3x, 4x and 5x, press the direction button to move the picture accordingly.

DVD Menu

Press the  button to go to the DVD menu.

11. CD/USB VIDEO OPERATIONS (MP4, AVI)

- This system can play video files (AVI/MP4, etc.) stored on disc/USB.



- Directory Button
- Toggle Page Button
- Play/ Pause Button
- Next Video/ Fast Forward Button
- Previous Video/ Fast Backward Button
- Current Time
- Playtime Progress Bar
- Total Playtime
- Directory Path Display
- Current Mode Display
- Folder/Track Number Display
- Zoom Operation Button
- Subtitle Switching Button
- Audio Channel Switching Button
- Repeat Button

Playing Video Files in CD/USB

- If the video is playing, touch the screen of the playing video to display Operation buttons.
- The display will return to the playback screen if you do not touch the screen for 10 seconds.

Play/Pause

- Press the **||** button to pause during playback.
- Press the **>** button to resume playback.

Switch to Previous/Next File

- Press **<<** or **>>** button during playback to play previous/next file.

Fast Forward/Fast Backward Operation

- Press **<<<** or **>>>** and hold more than 1 second to start fast backward or fast forward during playback. Release the button will continue playing with normal speed.
- When fast forward reach the end of the video, the fast forward will be cancelled and go to next video.
- When fast backward reach the beginning of the video, the fast backward will be cancelled and restart the video.

Note:

- The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

- Press the **🔄** button to select the repeat status for playback. The text will change accordingly.
- Every time the **🔄** button is pressed, the text will change as:

RPT OFF → VIDEO RPT → FLD RPT → RPT OFF

- VIDEO RPT (Video Repeat)**
The current video will be repeated after finish playing.
- FLD RPT (Folder Repeat)**
The video in current folder will be played repeatedly. The button will be displayed as "FLD RPT"
- RPT OFF (Repeat Off)**
Disengage the unit from repeat play. During repeat off mode, the button will be displayed as "RPT OFF".

Switching Subtitles

Some video files will have two or more subtitles have been recorded; you can switch among these subtitles during playback.

- Press the **T** button in button menu to select a subtitle during playback.
- Each time you press the button, you can switch among subtitles.
- It may take time to switching among subtitles.
Depending on the disc, switching may be impossible.

Video File List (Directory)

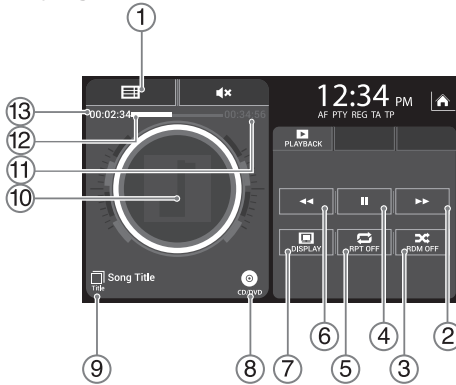
Showing the button menu, press the **☰** button to display video files list screen. Video file list operations in almost same as cd audio mode. Please refer to CD Audio Operations.

Zoom Operation

- Press the **🔍** button to zoom the picture. The text will change accordingly.
- Every time the **🔍** button is pressed, the text will change as:
OFF → ZOOM 2x → ZOOM 3x → ZOOM 4x → ZOOM 5x → ZOOM 1/2 → ZOOM 1/3 → ZOOM 1/4 → OFF
- During Zoom ratio of 2x, 3x, 4x and 5x, press the directional button to move the picture accordingly.

12. CD/USB AUDIO OPERATIONS

Playing Audio Files in CD/USB



1. Directory Button
2. Next Track/ Fast Forward Button
3. Random Button
4. Play/Pause Button
5. Repeat Button
6. Previous Track/ Fast Backward Button
7. Display Button
8. Current Mode Display
9. Track Title Display
10. Album Art Display (default image for song has no album art)
11. Total Playtime
12. Playtime Progress Bar
13. Current Playtime

Play/Pause Playback

1. Press the button to pause during playback.
2. Press the button to resume playback.

Switch to Previous/Next File or track

Press or button during playback to play previous/next file.

Fast Forward/Fast Backward Operation

1. Press or button and hold more than 1 second to start fast backward or fast forward during playback. Release the button will continue playing with normal speed.
2. When fast forward reach the end of the track, the fast forward will be cancelled and go to next track.
3. When fast backward reach the beginning of the track, the fast backward will be cancelled and restart the track.

Note:

- The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

1. Press the button to select the repeat status for playback. The text will change accordingly.
2. Every time the button is pressed, the text will change as:

RPT OFF → TRK RPT → FLD RPT → RPT OFF

- **TRK RPT (Track Repeat)**
The current track will be played repeatedly. The button will be displayed as "TRK RPT".
- **FLD RPT (Folder Repeat)**
The track in current folder will be played repeatedly. The button will be displayed as "FLD RPT".
- **RPT OFF (Repeat Off)**
Disengage the unit from repeat play. During repeat off mode, the button will be displayed as "RPT OFF".

Random Playback

1. Press the button to randomly play the track during playback.
2. Press this button again to turn off the feature.
3. Every time the button is pressed, the text will change as:

RDM OFF → RDM ON → RDM OFF

Notes:

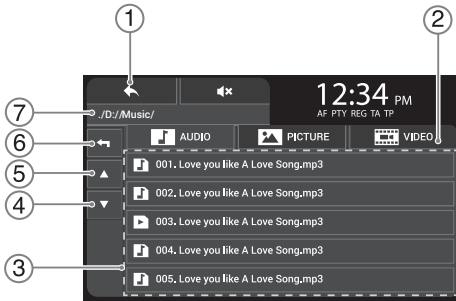
- Repeat and Random can be turn on together. The behaviors are as below.
- **TRK RPT + RDM ON**
The tracks will be played randomly.
- **FLD RPT + RDM ON**
The track in the current folder will be played randomly.

Album Art work

If current audio file contains album art image, the picture will be displayed in this area.





CD/USB Audio Operations

Selecting a Track on the Directory View




1. Exit Directory Button
2. Media Files Selection Tab
3. Folder/Track List
4. Page Down Button
5. Page Up Button
6. Return Button
7. Directory Path Display

This function allows you to select tracks from a directory view.

1. Press the  button to enter directory view.
2. Press the track title on the display list. The selected track will start playing.
3. When the desired track is not displayed, press  and  to flick the track list up and down.
4. When the desired track is in the other folder, press the folder title on the display list to enter the folder.
5. Press  to go to previous level of folder.

Tag Display Function

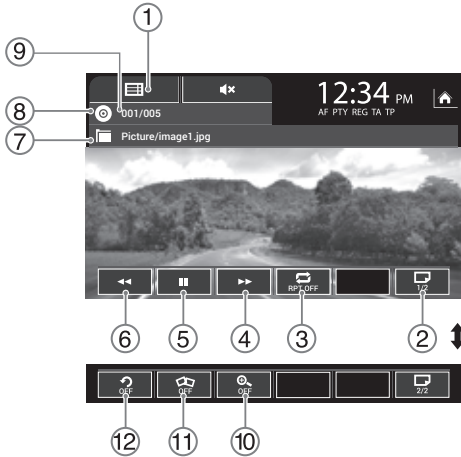
1. Each time the  button is pressed, the display is toggled in the following order:

(Album Art + Song Title) ↔ (Song Title + Album Name + Artist Name + File Name + Folder Name)

13. CD/USB PICTURE OPERATIONS

Showing CD/USB Picture Mode Screen

After disc is loaded or USB is inserted, go to directory and select picture from Picture tab to start slide show.



1. Directory Button
2. Toggle Page Button
3. Repeat Button
4. Next Picture Button
5. Play/ Pause Button
6. Previous Picture Button
7. Directory Path Display
8. Current Mode Display
9. Picture Number Display
10. Zoom Operation Button
11. Effect Mode Toggle Button
12. Rotate Operation Button

Play/Pause Playback

1. Press the button to pause during slide show.
2. Press the button to resume slide show.

Switch to Previous/Next File or track

Press or button during playback to play previous/next file.

Repeat Playback

1. Press the button to select the repeat status for playback. The text will change accordingly.
2. Every time the button is pressed, the text will change as:

OFF → FLD RPT → OFF

- **FLD RPT (Folder Repeat)**
The pictures in current folder will be played repeatedly. The button will be displayed as "FLD RPT".
- **OFF (Repeat Off)**
Disengage the unit from repeat play. During repeat off mode, the button will be displayed as "OFF".

Zoom Operation

1. Press the button to zoom the picture. The text will change accordingly.
2. Every time the button is pressed, the text will change as:
OFF → ZOOM 2x → ZOOM 3x → ZOOM 4x → ZOOM 5x → ZOOM 1/2 → ZOOM 1/3 → ZOOM 1/4 → OFF
3. During Zoom ratio of 2x, 3x, 4x and 5x, press the direction button to move the picture accordingly.

Rotate Operation

1. Press the button to rotate the picture. The text will change accordingly.
2. Every time the button is pressed, the text will change as:
OFF → 90° → 180° → 270° → OFF

Effect Operation

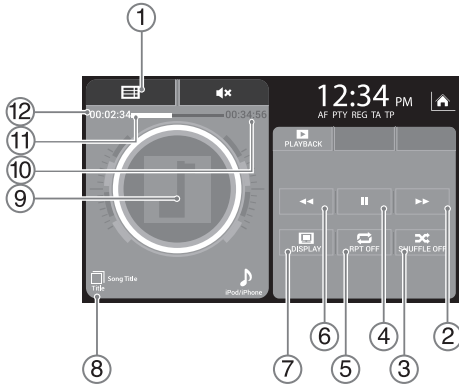
1. Press the button to enable the effect playback mode. The button will be displayed as "EFFECT".
2. Disengage the unit from effect playback mode by press the button again. The button will be displayed as "OFF".

14. iPod/iPhone OPERATIONS

This section describes operations when connected to an Apple iPod/iPhone via the USB slot.


Notes:

- Read the iPod user manual for operation conditions.
- The unit may not operate properly with unsupported devices or unsupported versions.





1. iPod Menu Button.
2. Next Track/ Fast Forward Button.
3. Shuffle Button.
4. Play/Pause Button.
5. Repeat Button.
6. Previous Track/ Fast Backward Button.
7. Display Button.
8. Track Title Display.
9. Album Art.
10. Total Playtime.
11. Playtime Progress Bar Display.
12. Current Playtime.



Select iPod Mode

1. Connect your iPod to the USB connector to the front panel. The system will automatically detect the connected device and switch to iPod mode and start playback after a while.
2. When iPod is already connected. Press the [SRC] button or press the  button on the Home Screen to select iPod mode. The display will change accordingly.
3. System will start playback from the last played track of the iPod.



Play/Pause Playback

1. Press the  button to pause during playback.
2. Press the  button to resume playback.

Switch to Previous/Next Track

Press  or  during playback to play previous/next file.


Fast Forward/Backward

Long press the  or  button to start fast backward or fast forward during playback. Releasing the button will resume playback at normal speed.

Note:



- The fast forward and fast backward speed may differ depending on the iPod.

Tag Display Function

Each time the  button is pressed, the display is toggled in the following order:

(Album Art + Song Title) ↔ (Song Title + Album Name + Artist Name)

Repeat Play

1. Press the  button to select the repeat status for playback. The text will change accordingly.
2. Every time the  button is pressed, the text will change as:
RPT OFF → TRK RPT → ALL RPT → RPT OFF...

- **TRK RPT (Track Repeat)**

Has the same behaviour as the **ONE TRACK REPEAT** status of iPod.

- **ALL RPT (All Repeat)**

Has the same behaviour as the **ALL REPEAT** status of iPod.



- **RPT OFF (Repeat Off)**

In this status, the **ALL TRACKS** are repeated.

Note:

- Repeat Play does not function for Podcasts.

Shuffle Play

1. Press the  button to select the shuffle status for playback. The text will change accordingly.
2. Every time the  button is pressed, the text will change as:
SHUFFLE OFF → SHUFFLE ON → SHUFFLE OFF...

- **SHUFFLE ON**

Shuffle On is equivalent to Shuffle Songs in the iPod. The button will be displayed as "SHUFFLE ON".

- **SHUFFLE OFF**

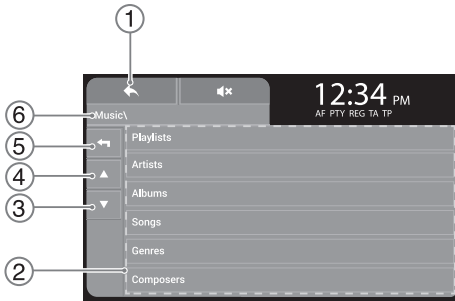
Shuffle play is turned off. The button will be displayed as "SHUFFLE OFF".

Note:

- Shuffle Play does not function for Podcasts.

iPod/iPhone Operations

Selecting a Song from iPod Menu



1. Exit iPod Menu Button.
2. Category/Track List.
3. Page Down Button.
4. Page Up Button.
5. Return Button.
6. Track Directory Display.

1. Press the button to enter iPod Menu. The left display will change accordingly.
2. Press the / buttons to browse the categories.
3. Select the desired category to go to the next level; press the button to return to the previous level of the selected category. Repeat steps 2 and 3 until the last level (song list).
4. Press the / buttons to browse the list of songs.
5. Select the desired song at the last level of the category to play the track. iPod Menu will be exited automatically.
6. Press the button to go to the previous category.
7. Press the button to exit iPod Menu.

Available iPod Categories

Playlists
 Artists
 Albums
 Songs
 Genres
 Composers
 Audiobooks*
 Podcasts*

* Availability depends on iPod

Supported iPod/iPhone Devices



Supported iPod/iPhone and compatible software version:

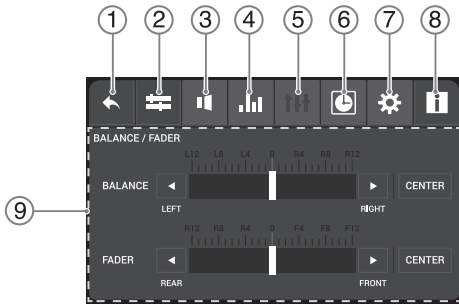
iPod/ iPhone models	Compatible Version
iPhone 6	iOS 8.2
iPhone 5s	iOS 8.2
iPhone 5c	iOS 8.2
iPhone 5	iOS 8.2
iPhone 4s	iOS 8.2
iPhone 4	iOS 7.1.2
iPod Touch 5th Gen	iOS 8.2
iPod Touch 4th Gen	iOS 6.1.6
iPod Nano 7th Gen	1.0.3
iPod Nano 6th Gen	1.2

* The supported devices above were tested with the respective versions listed in the table. Other versions of the same devices may not work properly.

15. SETTINGS OPERATIONS


Select Settings

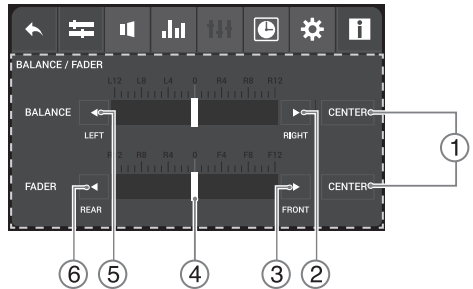
1. Press the  button on the Home Screen. The display will change accordingly.
2. The audio of the current mode can be heard in the background. Audio volume will still be adjustable.
3. Press one of the top buttons to select a specific setting category.
4. Press the  button to exit Settings and return to the previous mode.



1. Return Button.
2. Balance/Fader Tab.
3. Time Alignment Tab.
4. Sound Effect Tab.
5. Graphic Equalizer Tab.
6. Clock Adjustment Tab.
7. General Settings Tab.
8. About Tab.
9. Adjustment Display. Differs with each adjustment category.




Balance/Fader Adjustment

Press the  button in the top menu to select the Balance/Fader tab. The display will change accordingly.






1. Center Buttons.
2. Right Button.
3. Front Button.
4. Pointer Display.
5. Left Button.
6. Rear Button.

• Adjusting the Balance

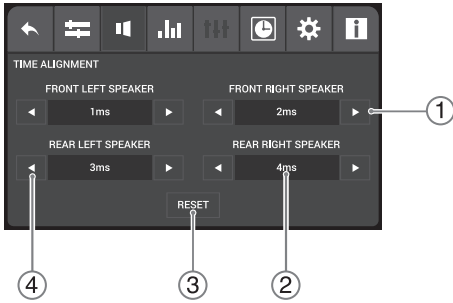
1. The adjustment range for balance is L12 to R12.
2. Press the  button to emphasize the sound from the right speakers.
3. Press the  button to emphasize the sound from the left speakers.
4. Press the  button to reset the balance to "CENTER".

• Adjusting the Fader

1. The adjustment range for balance is R12 to F12.
2. Press the  button to emphasize the sound from the front speakers.
3. Press the  button to emphasize the sound from the rear speakers.
4. Press the  button to reset the fader to "CENTER".

Settings Operations

Time Alignment Adjustment



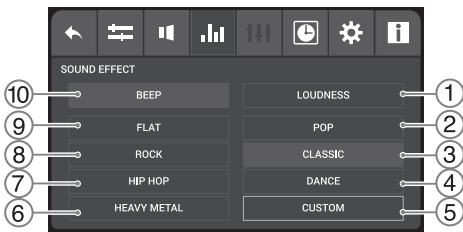
1. Increase Delay Button.
2. Time Delay Display.
3. Reset Button.
4. Decrease Delay Button.

1. Press the button in the top menu to select the Time Alignment tab. The display will change accordingly.

Note:

- The time alignment is adjustable for all four speakers with a range of 0 – 20 milliseconds (ms) in total across all speakers.
2. Press the button to increase the time delay from a speaker by 1 millisecond (ms).
 3. Press the button to decrease the time delay from a speaker by 1 millisecond (ms).
 4. Press the **CENTER** button to reset the time alignment on all speakers to "0".

Sound Effect Selection



1. Loudness Button.
2. Pop Button.
3. Classic Button.
4. Dance Button.
5. Custom Button.
6. Heavy Metal Button.
7. Hip Hop Button.
8. Rock Button.
9. Flat Button.
10. Beep Button.

Press the button in the top menu to select the Sound Effect tab. The display will change accordingly.

• Beep Function

The beep function produces a beep sound whenever any button with a valid operation is pressed.

1. Press the **BEEP** button to toggle the beep function on or off. The button display will change accordingly.

• Loudness Function

The loudness function amplifies the audio on the unit.

1. Press the **LOUDNESS** button to toggle the loudness function on or off. The button display will change accordingly.

• Preset Equalizer

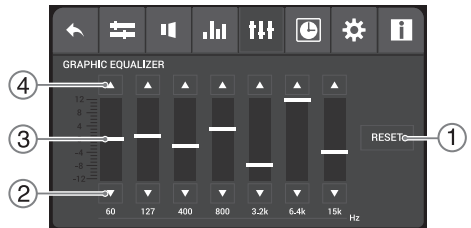
Select one of the eight buttons to choose a preset tone:

- FLAT
- POP
- ROCK
- CLASSIC
- HIP HOP
- DANCE
- HEAVY METAL
- CUSTOM (not preset)

Note:

- The CUSTOM tone allows manual adjustment of the audio via a graphic equalizer.

Graphic Equalizer



1. Reset Button.
2. Decrease Gain Button.
3. Gain Pointer Display.
4. Increase Gain Button.

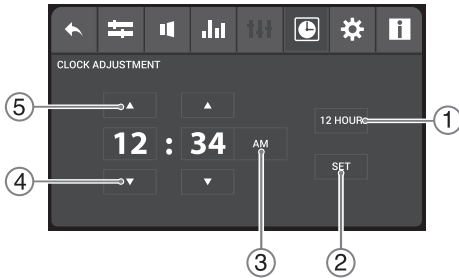
1. Press the button at the top menu. The display will change accordingly.

Notes:

- Graphic equalizer is only available if the CUSTOM preset tone is selected.
 - A series of 7 frequency bands are available for customization. The default gain for each band is 0. Each band has an adjustable range of -12 to 12.
2. At each band, press the / buttons to increase or decrease the audio gain.

Settings Operations

Clock Adjustment



1. 12-Hour/24-Hour Button.
2. Set Clock Button.
3. AM/PM Button.
4. Hour/Minute Decrease Button.
5. Hour/Minute Increase Button.

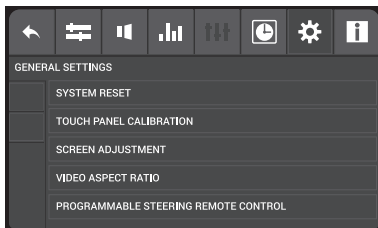
1. Press the button at the top menu. The display will change accordingly.
2. Press the / buttons to increase or decrease the Hour/Minute of the clock.
3. Press the **12 HOUR** button to change the clock format to 12-Hour or 24-Hour display. The button display will change accordingly.
4. Press the **AM** button to change the clock format to AM or PM. The button display will change accordingly.

Note:

- The **AM** button is only available in 12-Hour clock display.

General Settings

1. Press the button at the top menu. The display will change accordingly.
2. Select the one of the listed items to perform customization of general settings.



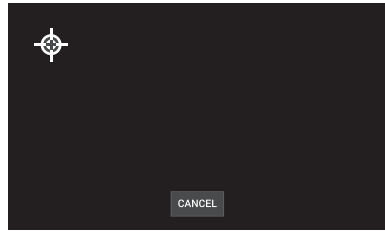
• System Reset

1. Select System Reset in the General Settings menu.
2. Select **"OK"** to confirm system reset.
3. Press **"CANCEL"** to return to previous display.

Notes:

- The system will restart after resetting.
- All previous settings on the unit will be reset.

• Touch Panel Calibration



1. Select Touch Panel Calibration on the General Settings menu. The display will change accordingly.
2. Press the target buttons in the order displayed on the unit.
3. Press the **OK** button to save calibration adjustment.
4. Press the **CANCEL** button during the calibration process to cancel progress and return to the previous display.

• Screen Adjustment



1. Current Mode Layout
2. Next Category Button
3. Increase Effect Button
4. Progress Bar Display
5. Category Name Display
6. Decrease Effect Button
7. Previous Category Button

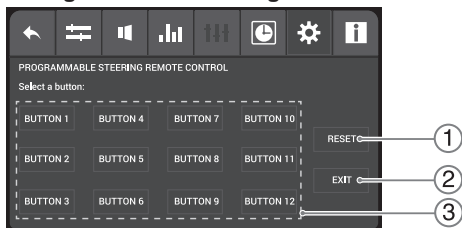
1. Select Screen Adjustment on the General Settings menu. The display will change according to the current mode display.
2. Press the / buttons to select the screen adjustment category in the following order:
Brightness → **Contrast** → **Saturation** → **Brightness...**
3. Press the / buttons to adjust the screen setting.

Settings Operations

• Video Aspect Ratio

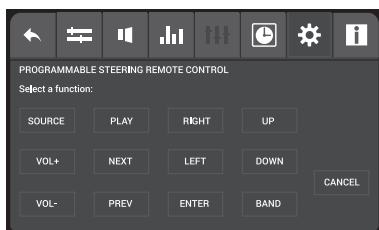
1. Select Video Aspect Ratio on the General Settings menu. The display will change accordingly:
 - 16:9
 - 4:3 Pan Scan
 - Letterbox
2. Select the one of the listed items to select a ratio for video play. The default ratio is "16:9".
3. Select "CANCEL" to return to the previous display.

• Programmable Steering Remote Control



1. Reset Button.
2. Exit Button.
3. Programmable Buttons.

1. Select "Programmable Steering Remote Control" on the General Settings menu. A series of 12 virtual buttons are available for key function allocation on the unit.
2. Press the **RESET** button to erase all stored functions in the steering remote control.
3. Press the **EXIT** button to return to the previous display.
4. Select a button on the touch screen to assign a key function to it.
5. Select one of the 12 functions available to be stored into



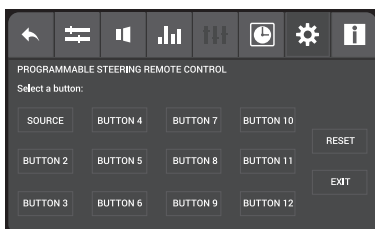
the selected button:

- Source/Power

- Volume Up
- Volume Down
- Pause/Play
- Next
- Previous
- Right
- Left
- Enter
- Page Up
- Page Down
- Band

Note:

- The operation of each function is the same as the button functions of the remote control. For further details, refer to "Remote Control Operations".
6. Press and hold the physical button on the steering remote control to program the function. The button can be released once the unit returns to the button display. The assigned button now has the programmed function.
 7. Press the **EXIT** button to cancel the storing process and to return to the previous display.



16. TROUBLESHOOTING

GENERAL

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your installation center.
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. Note: * When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
The remote control unit does not work.	Direct rays of the sun fall on the light-receptive part of the remote control unit.	When direct rays of the sun fall on the light-receptive part of the remote control unit, it may not work.
	The battery of the remote control unit is dead or there is no battery in the remote control unit.	Check the battery of the remote control unit.

DVD PLAYER

Problem	Cause	Measure
Disc cannot be loaded.	A disc is already loaded.	Eject the disc before loading the new one.
	There is foreign matter already in the disc slot.	Remove the foreign matter, or consult a service station.
Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
	Disc is heavily scratched or warped.	Replace with a disc in good condition.
Sound is bad directly after power is turned on.	Condensation may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Video images are not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.

Troubleshooting

USB DEVICE

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "NO FILE" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
Video images are not displayed.	The parking brake is no engaged.	Check that the parking brake is engaged.

TFT SCREEN

Problem	Cause	Measure
The image is not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
The display is dark.	The Brightness control is too low.	Adjust the Brightness properly.
	The headlight of the vehicle is lit.	The display is made dark at night to prevent the glare (When the headlight of the vehicle is lit in the daytime, the display gets dark). Adjust the Brightness properly.

17. ERROR DISPLAY

Display	Cause	Measure
DISC ERROR	A disc is caught inside the DVD deck and is not ejected.	This is a failure of DVD deck's mechanism and consult your store of purchase.
	A disc cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	A disc is loaded upside- down inside the DVD deck and does not play.	Eject the disc then reload it properly.
LOAD ERROR	The connected USB device is not supported.	If the USB device is frozen, disconnect it, and reconnect it again. Connect a proper USB device.
	An error occurred when controlling the USB device.	Disconnect the USB device, and reconnect it again.
	The device is connected via the USB Hub.	Disconnect the device, and reconnect directly to the USB connector of this unit without using the USB Hub.
OVERCURRENT	Over-current is detected.	Turn off the ignition switch, disconnect the device, restart the engine and reconnect it again. If the device is still not recognized, try replacing with a different device.

18. SPECIFICATIONS

FM tuner

Frequency Range	: 87.50 ~ 108.00 MHz
Usable Sensitivity	: <10 dB
Frequency Response (± 3 dB)	: 100 ~ 7000 Hz
Stereo Separation (1 kHz)	: >20 dB

AM tuner

Frequency Range	: 531 ~ 1602 kHz
Usable Sensitivity	: <32 dB

DVD player

System	: Digital Versatile Disc System with CDDA capable
Usable Discs	: DVD video disc Compact disc
Frequency Response	: 17 ~ 20 000 Hz
Signal-to-Noise Ratio	: 70 dB
Harmonic Distortion	: 0.3%

USB

Specification	: USB 3.0
File system	: FAT16, FAT32
Playable audio format	: MP3 (.mp3), WMA (.wma), AAC (.m4a)
Playable video format	: AVI (.avi), MP4 (.mp4)
Playable image format	: JPEG (.jpeg)

iPod/iPhone

Refer to "Supported iPod/iPhone Devices"

Screen

Screen size	: 6.2 inch
Resolution	: 800 x 480
Touch type	: TFT Active Matrix Display

General

Power Source Voltage	: 10.8 V ~ 16.0 V
Current Consumption	: Less than 10A
Weight of the Main Unit	: 2.3kg
Dimensions of the Main Unit	: 178.0 mm Width X 100.0 mm Height X 155.5 mm Depth
Maximum Power Output	: 200 W (50 W x 4 ch)
Operating Temperature	: -20°C ~ +70°C

