



**Owner's manual**

**VX405**

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**DVD MULTIMEDIA STATION WITH BUILT-IN NAVIGATION &  
6.0" TOUCH PANEL CONTROL**

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Hemos hecho el registro de producto fácil en nuestro sitio. La forma de registro es corta y fácil de completar. Una vez que lo registre, podremos proporcionarle la información de su producto.

Regístrese en [www.clarion.com](http://www.clarion.com) - es fácil mantener su producto de Clarion actualizado.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique

à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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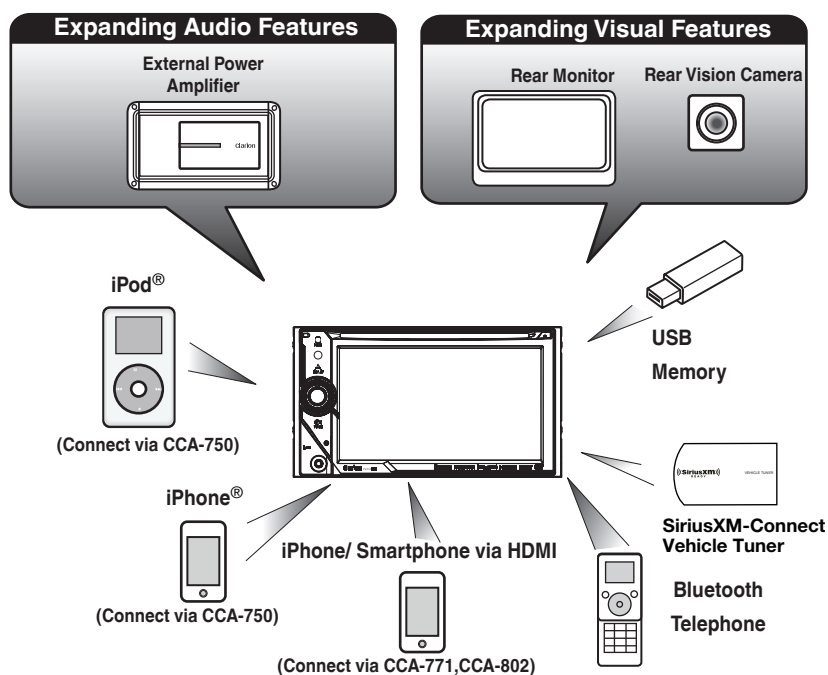
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# 1. FEATURES

- **FLAC(Free Lossless Audio Codec) Compatible with ID3-TAG Display**
- **Built-in Bluetooth® Handsfree (HFP) and Audio Streaming (A2DP & AVRCP)**
- **Front-Panel Auxiliary Input and 6ch RCA Output with Subwoofer Control**



## Expanding Systems



### NOTE:

- The items listed outside of the frames are the commercial products generally sold.
- CCA-750, CCA-771, CCA-802: Sold separately.

## 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 required to do so.
- This navigation system should not be used to replace your own judgment. No itinerary suggested by this navigation system should ever override any highway regulations, your own judgment, or a knowledge of safe driving practices. Do not follow the navigation system's suggested itinerary if it would cause you to perform a dangerous or illegal act, place you in a dangerous situation, or take you into an area you consider unsafe.
- The advice provided by the navigation system is to be regarded as a suggestion only. There may be times when the navigation system displays the vehicle's location incorrectly, fails to suggest the shortest route, or fails to direct you to your desired destination. In such instances, rely on your own driving judgment, taking into account the driving conditions at the time.
- Do not use the navigation system to locate emergency services. The database does not contain a complete listing of emergency services such as police stations, fire halls, hospitals and walk-in clinics. Please show discretion and ask for directions in such instances.
- 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.
- In order to avoid a traffic accident or traffic offense, remember that actual road conditions and traffic regulations take precedence over the information contained on the navigation system.
- 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.
- Where actual road conditions and highway regulations differ from the information contained on the navigation system, abide by the highway regulations.
- Keep the amount of time spent viewing the screen while driving to a strict minimum.
- The navigation system does not provide, nor represent in any way information on: traffic and highway regulations; technical aspects of the vehicle including weight, height, width, load and

speed limits; road conditions including grade, percentage of incline and surface conditions; obstacles such as the height and width of bridges and tunnels; and other current driving or road conditions. Always rely on your own judgment when driving a car, taking into account current driving conditions.

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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



1. 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.

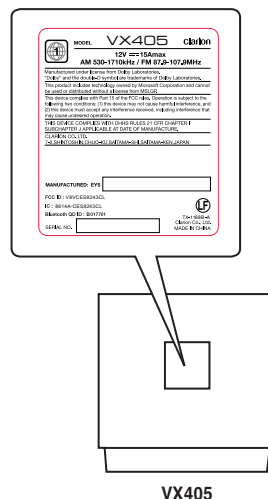
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.

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.

## INFORMATION FOR USERS

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



### 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 supported.
- Connecting with the USB Hub is not supported.

#### 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, 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.

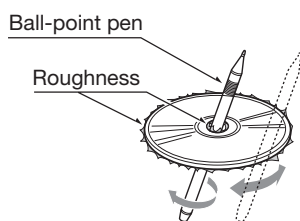
##### • Cleaning the liquid crystal panel

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 Discs

### 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 fingermarks 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.

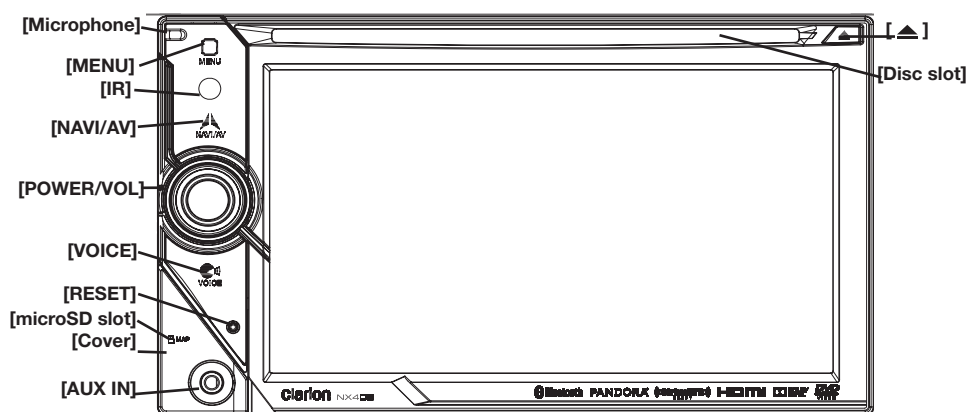
### CAUTION

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

### About the registered marks, etc.

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "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. iPhone, iPod, Siri and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.  
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- Android™ is the trademark of Google Inc.
- The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth® SIG, Inc. And any use of such marks by Clarion Co., Ltd. is under license. Other trademarks and trade names are those of their respective owners.
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- Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. All rights reserved.

## 4. OPERATION PANEL



Only navigation map card is available and don't remove it when unit is power on

### Functions of Buttons

#### [POWER/VOL] Knob

- Press this knob to turn on the power.
- When the power is already on, it moves to the Navigation mode. If Navigation mode is displayed, it moves to the Navigation menu.
- Keep pressing this knob more than 2 seconds to turn off the power.
- Turn this knob to left or right to decrease or increase the volume of the system.

#### [NAVI/AV] Button

- Press this button to display NAVI, press again to return current source.
- Press and hold this button for 2 seconds to display the Dimmer setting menu.

#### [▲] Button

- Press to eject disc from the unit.

#### [MENU] Button

- Press this button to display main menu; press again to return current source.
- Press and hold this button for 2 seconds to turn off the monitor. Press any place of the screen to turn on the monitor again.

#### [RESET] Button

- Press this button to hardware reset the unit.

**Note:** When the **[RESET]** button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

#### [microSD slot ]

Note: The microSD card is only for navigation. Please don't insert microSD card for other purpose. After insertion of microSD card for MAP, don't remove it; otherwise, the navigation function will be disabled.

#### [AUX IN]

AUX 1 Connector.

#### [Microphone]

This is used for Bluetooth phone.

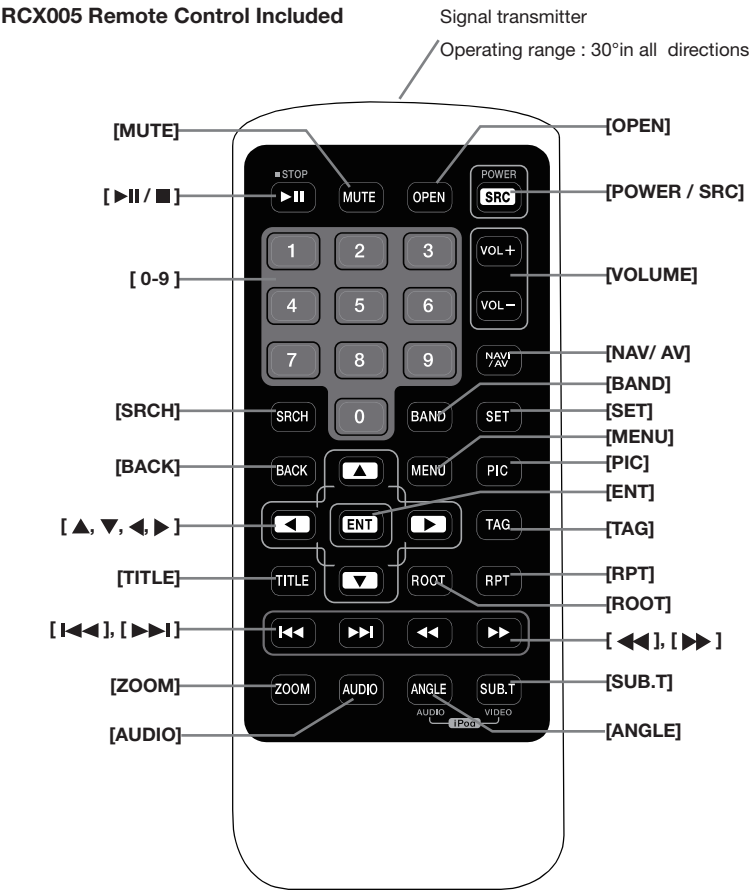
#### [IR] SENSOR

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

#### [VOICE] Button

Press and hold this button until you hear the warning tone, then you can use Siri® Eyes Free function.

## 5. REMOTE CONTROL



**Replacing the batteries**

- 1.Press the retention tab and pull out the battery tray and remove the old battery.
2. 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.

**CAUTION**

- Keep the battery out of the reach of children.  
Should the battery be swallowed, consult a doctor immediately.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

**⚠ CAUTION**

- Use one CR2025 (3V) lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if battery is incorrectly replaced. Replaced only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.

- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

**►Important**

- Do not store the remote control in high temperatures or direct sunlight.
- The remote control may not function properly in direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

**Remote Control Functions**

You can use the remote control to operate the NX405.


**Note:**

- The wireless remote control operation may not be optimal in direct sunlight.

**[▶||/■] Button**

- Press this button to play or pause video and audio media.
- Press this button more than 1 second to stop video and audio media.
- Play/Pause (Replay/TuneMix) in SiriusXM mode.

**[MUTE] Button**

- Mute or Unmute the speaker.
- The symbol  on upper right area of the screen indicates that speaker is muted.

**[POWER/SRC] Button**

- Press this button to move the focus to next available source item on main menu.
- Press this button to power on when the unit is power off.
- Press this button more than 1 second to power off when the unit is power on.

**[0 - 9] Buttons**

- Use in the Key Pad screen to select the radio.
- Use to select the track in the track list screen.
- Press to enter DVD video chapters/titles in the Key Pad screen.

**[VOLUME] Buttons**

- Increase and decrease volume.

**[NAVI/AV] Button**

- Press this button to switch between current source and current position on navigation map.

**[SRCH] Button**

- Press this button to open chapter or title search

window while playing DVD.

**[BAND] Button**

- Switch to next band alternately.

**[SET] Button**

- Press this button to open the Audio setting menu in any mode.

**[BACK] Button**

- Press this button to quit main menu if current screen is main menu.

**[▲], [▼], [◀], [▶] Buttons**

- Press this button for cursor movement in main menu or Setting mode.
- From the main menu, you can select your desired source or change your settings.

**[MENU] Button**

- Press this button to enter the MAIN MENU or return current resource.

**[PIC] Button**

- Press and hold this button to change your monitor Dimmer.

**[ENT] Button**

- Press to fix the entered data in the Key Pad screen or enter the item the cursor is on.

**[TAG] Button**

- iTunes® tagging in SiriusXM mode.

**[TITLE] Button**

- Press to go to the title menu on the DVD.

**[ROOT] Button**

- Press to go to the root menu on the DVD.

**[RPT] Button**

- Press to perform chapter repeat / title repeat / repeat off while playing DVD mode.
- Press to perform Repeat Track/Repeat All while playing CD.
- Press to perform Repeat Track /Repeat Folder/ Repeat All while playing MP3/WMA, or video files on disc.
- Press to perform Repeat Track /Repeat Folder/ Repeat All while playing MP3/WMA, or video files in USB memory.

**[◀◀], [▶▶] Buttons**

- Press to seek the next available lower or higher station in Tuner mode.
- Press to select the next lower or higher chapter number in DVD video mode.
- Press to select the next lower or higher track in CD, USB Video, USB Audio mode.
- Press for movement of background source in Navigation mode.
- Preset Up/Down, Track Up/Down (TuneMix) in SiriusXM mode.

**[◀◀], [▶▶] Buttons**

- Press to manually select the next lower or higher station in Tuner modes.
- Press to perform fast-backward or fast-forward searching. Press again to change the speed to 2x, 4x, 8x or 16x.
- Press for movement of background source in Navigation mode.

- Preset Up/Down, Channel Up/Down in TuneMix.

- Channel Up/Down in SiriusXM mode

**[ZOOM] Button**

- Press to turn on and zoom in while playing DVD. You can zoom in up to 3x. (No all DVD disc supports this function).

**[AUDIO] Button**

- Press to switch the AUDIO channel of the disc while playing DVD.

**[SUB-T] Button**

- Press to switch next available subtitle while playing DVD.
- Press to display Video menu in iPod mode.

**[ANGLE] Button**

- Press to switch the different ANGLE while playing DVD. (No all DVD disc supports this function)
- Press to display Audio menu in iPod mode.

**[OPEN] Button**

- Press to eject disc from the unit.



## 6. MAIN MENU



- 1 - Tuner---Touch the button to display the Tuner mode.
- 2 - HDMI---Touch the button to display the HDMI mode.
- 3 - SiriusXM ---Touch the button to display the SiriusXM mode.
- 4 - TEL--- Touch the button to display the Telephone mode.
- 5 - iPod Audio---Touch the button to display the iPod Audio mode.
- 6 - USB/SD Audio---Touch the button to display the USB/SD Audio mode.
- 7 - Disc Audio---Touch the button to display the Disc Audio mode.
- 8 - iPod Video---Touch the button to display the iPod Video mode.
- 9 - USB/SD Video---Touch the button to display the USB/SD Video mode.
- 10 - Disc Video---Touch the button to display the Disc Video mode.
- 11 - Pandora®---Touch the button to display the Pandora mode.
- 12 - BT Audio--- Touch the button to display the Bluetooth Audio mode.
- 13 - AUX1 ---Touch the button to display the AUX1 mode.
- 14 - AUX2 ---Touch the button to display the AUX2 mode.
- 15 - Camera---Touch the button to display the Camera mode.
- 16 - Setting button---Touch the button to display the Setting menu.
- 17 - Monitor off --- Touch the button to turn off the monitor.
- 18 - Day/Night --- Touch the button to change the dimmer.
- 19 - Audio off---Touch the button to make audio source voice off.
- 20 - 2-zone OFF---
- 21 - Rear---Touch the button to display the Rear mode.

### Scrolling the menu

Flicking to right or left it will switch to next or previous page of main menu.

### Moving the menu position

1. Touch any quadrate icon on main menu more than 2 seconds, the icon will float on main menu.
2. Scrolling the floating icon to any position you want.



## 7. DVD VIDEO PLAYER OPERATIONS

### Discs

#### Playable discs

This DVD video player can play the following discs.

Playable discs		
		
DVD video discs	Audio CD	CD TEXT

Playable media files	
	
MP3/WMA/AAC	MP4

#### 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 U.S.A and Canada can play back DVD discs with the region number “ALL”, “1” or any combination of numbers that also incorporate a “1”.

The DVD video region number is marked on the disc jacket as shown below.



#### About CD Extra disc

A CD Extra disc is a disc in which a total of two sessions have been recorded. The first session is Audio session and the second session is Data session.

Your personally-created CDs with more than second data sessions recorded cannot be played on this DVD video player.

#### Note:

- When you play a CD Extra disc, only the first session will be recognized.

#### Discs that cannot be played back

This DVD video player cannot play back DVD-Audio, DVD-RAM, Photo CDs, etc.

#### Note:

- It may also not be possible to play back CDs recorded on a CD-R unit and CD-RW unit. (Cause: disc characteristics, cracks, dust/dirt, dust/dirt on player's lens, etc.)
- If a CD-R or CD-RW disc that has not been finalized is played, it will take a long time to start playing. Also, it may not be possible to play depending on its recording conditions.
- You cannot play SuperAudio CD.

The CD player is not supported even if it is a hybrid disc.

#### About MP3/WMA/AAC playback

This unit can play back CD-R/CD-RW, DVD-R/RW and DVD+R/RW discs on which MP3/WMA/AAC music data have been recorded.

For a detailed information, see the section entitled “Listening to compressed audio”.

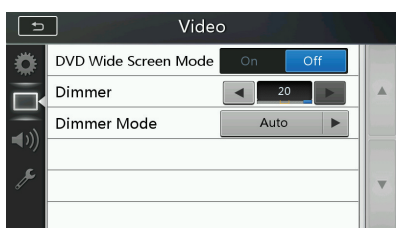
## Change DVD System Settings

### Note:

If the setup operation is performed in the middle of DVD video play, the disc will restart from the beginning.

### Selecting DVD Setup Menu

1. Touch the **[Settings]** button on the Main Menu to access the Video setup menu.
2. Touch **[Video]** button. The video menu is displayed.



### Setting up the Screen Size

Touch the **[DVD Wide Screen Mode]** button to turn on or turn off the DVD wide screen mode.

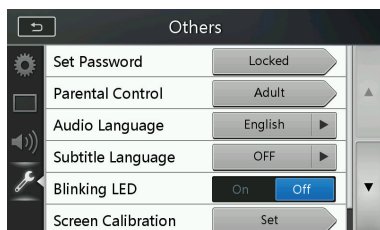
The factory default setting is "off"

Note: Not all DVD disc support this function.

### Setting up the password for parental level control

The factory default pass code is "0000".

1. In Main Menu Touch **[Settings]** button. Touch **[Others]** button on the display. Touch the **[Set Password]** ---- and a numerical key pad will appear.



Input a new password and come again. The password is set.

### Note:

When a disc with view restrictions is inserted, you will be prompted to input this password. The disc will not be viewable until the correct password is entered.

### Set rating for parental level control

1. Select Others screen while in Setting mode. Touch **[Parental Control]** button. Touch the desired rating for level control. Use this table to set the parental level.

Kid Safe	Kid Safe
G	General Audiences
PG	Parental Guidance Suggested
PG-13	Parents Strongly Cautioned
PG-R	Parental Guidance Restricted
R	Restricted
NC-17	No One 17 And Under Admitted
Adult	Only Adult

- The contents that the parental level restricts vary with the country code.

**Note:** The rating can be selected only under the password unlocked status, and the limits can be set only under the password locked status.

## Watching to a Disc

1. To load a disc:  
Insert the disc into the center of the insertion slot the label side facing up.

### CAUTION

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


### Note:

- Never insert foreign objects into the disc insertion slot.
  - If the disc is not inserted easily, there may be another disc in the mechanism or the unit may require service.
  - 8cm (single play) discs cannot be used.
2. Disc starts playing automatically.

### WARNING

Some videos may be recorded at higher than desired volume levels. Increase the volume gradually from the minimal setting after the video has started.

### Ejecting a disc

1. To eject a disc press eject  button. The play mode then switches to the Tuner mode.  
If the disc is left in the ejected position for 10 seconds, the disc is automatically reloaded. In this case, the play mode will remain in the Tuner mode.

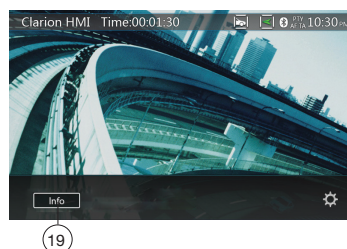
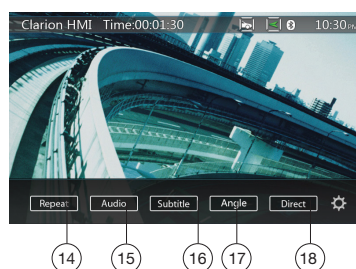
### Note:

If you force a disc into before auto reloading, it may damage a disc.

## Showing DVD Player Mode Screen

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

Touch any place of the screen to display DVD Video menu touch the screen again to return the playback screen. The display will return to the playback screen, if you do not touch the screen for 10 seconds.



- 1 - Option button
- 2 - Show Cursor keys button
- 3 - Previous Chapter /Fast Backward button
- 4 - Play/Pause button
- 5 - Next Chapter /Fast Forward button
- 6 - Elapsed playing time
- 7 - Seek bar
- 8 - Total time
- 9 - Menu List button
- 10 - System time
- 11 - Bluetooth status indicator

- 12 - DVD playback information
- 13 - Shortcut button
- 14 - Repeat Switching button
- 15 - Audio Channel switching button
- 16 - Subtitle switching button
- 17 - Angle button
- 18 - Direct chapter or title searching button
- 19 - Information button

## Operate the DVD Player Menu

You can select the button items displayed in the DVD menu by directly touching it.

### Play/Pause Playback

1. Touch [ ] button to pause during playback.
2. Touch [ ] button again to resume playback.

### Skip (Search) a Chapter

1. Touch [ ] or [ ] button during playback. Chapters are skipped down or up from current locations, as many times as the button is touched, and playback starts.

### Skip use seek bar

Touch the triangle on seek bar and drag it to any position where you want to start playback.

### Fast Forward/Fast Backward

1. Touch [ ] or [ ] button and hold 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playing with normal speed.

### Note:

- No audio is reproduced during fast forward and fast backward operation.
- The fast forward and fast backward speed may differ depending on the disc.

### Search function

You can locate the beginning of a scene using the chapter numbers or title numbers recorded on the DVD Video disc.

1. Showing the DVD Video menu, touch [ ] button. The Key Pad screen appears with the chapter/Title number input mode.

Touching [ ] button turns the Key Pad to the chapter number input mode.

Touching [ ] button turns the Key Pad to the title number input mode.

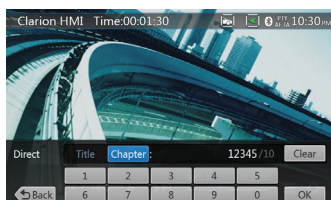
#### • Title

A large segment to divide the data area of the disc.

#### • Chapter

A small segment to divide the data area of the disc.

2. Input the number of the title/chapter that you want to play with the [0] to [9] key.
3. Touch the [ ] button.



Playback starts from the scene of the input title number or chapter number.

#### NOTE:

\*If the input title/chapter number does not exist or searching with a title/chapter number is not allowed, the screen image will not change.

4. Touch [Back] button to close the key pad.

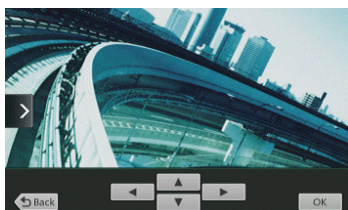
#### Repeat Playback

This operation plays back chapters recorded on the DVD-Video repeatedly.

1. Showing the DVD Video menu, touch [Repeat] button.
2. Touch [Repeat] button once for Repeat Chapter, again for Repeat Title.
3. Touch [Repeat] button again to turn off the repeat playback.

#### Using the Title Menu

On DVD discs containing two or more titles, you can select from the title menu for playback.



1. Showing the DVD Video menu, touch [Title] button during playback.
- \* Depending on the disc, the title menu may not be called.
2. Touch the title menu screen. And touch the Show Cursor keys.
3. Select the items in the title menu screen by [Left] [Right] [Up] [Down] directional buttons.
- \* Depending on the disc, items may not be selected with the directional buttons.
4. Touch [OK] button to fix on the selected item.
5. Touch [Back] button.

#### 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 DVD Video menu, touch [Audio] button during playback.

- Each time you touch the button, you can switch among audio languages.
- It may take time to switch among audios.

Depending on the disc, up to 8 kinds of audios may be recorded. For details, see the mark of the disc: (8) Indicates that 8 audios have been recorded).

When the power is turned on and when the disc is changed to a new one, the language set as the factory default is selected. If that language has not been recorded on disc the language is specified on the disc.

Depending on the disc, switching may be completely impossible or impossible on some scenes.

#### Switching Subtitles

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

1. Showing the DVD Video menu, touch [Subtitle] button to select a subtitle during playback. Each time you touch the button, you can switch among subtitles.

- 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: (8) 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 touching [Subtitle] button until subtitles are turned off.

#### Displaying the playback status

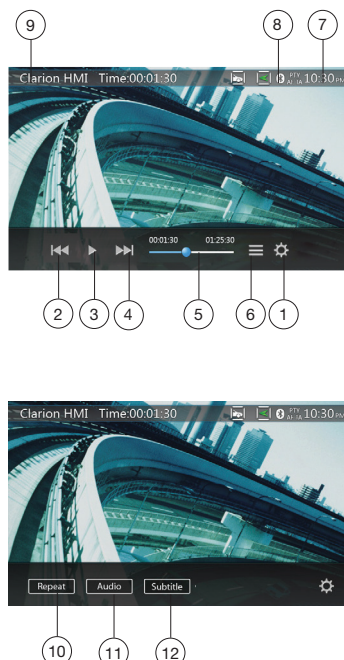
Touch [Info] button on DVD Player mode screen, Playback status is displayed on screen.

#### Play video files

This system can play video files stored on disc.

#### Showing Video Files Player Mode Screen

1. After disc with video files is loaded, touch [Disc Video] button on MAIN MENU to show video files player mode screen.
2. Touch the screen of the playing video file to display Video files player menu touch the screen again to return the playback screen. The display will return to the playback screen, if you do not touch the screen for 10 seconds.



- 1 - Option button
- 2 - Previous Track /Fast Backward button
- 3 - Play/Pause button
- 4 - Next Track/Fast Forward button
- 5 - Elapsed playing time /Seek bar
- 6 - List Mode button
- 7 - System time
- 8 - Bluetooth status indicator
- 9 - Playback information
- 10 - Repeat button
- 11 - Audio button
- 12 - Subtitle button

### Operate the Video Files Player Menu

You can select the button items displayed in the Video files player menu by directly touching it.

#### Play/Pause Playback

1. Touch [ ] button to pause during playback.
2. Touch [ ] button again to resume playback.

#### Switch to Previous/Next File

1. Touch [ ] or [ ] button during playback to play previous /next file

#### Skip using seek bar

Touch the ball on seek bar and drag it to any position where you want to start playback.

### Fast Forward /Fast Backward

1. Touch [ ] or [ ] button and hold 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playback with normal speed.

#### Note:

\*No audio is reproduced during fast forward and fast backward operation.

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

### Repeat Playback

This operation plays back video files recorded on the disc repeatedly.

The repeat set as the factory default is Repeat all.

1. Showing the video files player menu, touch [Repeat] button.
2. Touch [Repeat] button once for Repeat Track, again for Repeat Folder.
3. Touch [Repeat] button again for Repeat All.

### Switching Audio

Some video files will have two or more audio channels; you can switch among the audio channels during playback.

1. Touch [Audio] button during playback.
  - Each time you touch the button, you can switch among audio languages.
  - It may take time to switch among audios.

Depending on the disc, switching may be impossible.

### Switching Subtitles

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

1. Touch the [Subtitle] button to select a subtitle during playback.
  - Each time you touch the button, you can switch among subtitles.
  - It may take time to switch among subtitles.

Depending on the disc, switching may be impossible.

### Video Files List

Showing the Video files player menu; touch the [ ] button to display video files list screen.

Video files list operations is almost same as Disc Audio player mode. Please refer to CD Player Operations.

### Playable Video Disc Formats

This system can play video files stored on disc.

\*.avi files

- format: MPEG4 Visual Simple @L1
- Picture size: 720 x 480
- Audio format: MP3
- Audio sampling frequency: 32/44.1/48 KHz

## \*.mp4 files:

- format: MPEG4 Visual Simple @L1
- Picture size: 720 x 480
- Audio format: AAC
- Audio sampling frequency: 32/44.1/48 KHz

## \*.mpg files

- format: MPEG2
- Picture size: 720 x 480
- Audio format: MP3
- Audio sampling frequency: 32/44.1/48 KHz



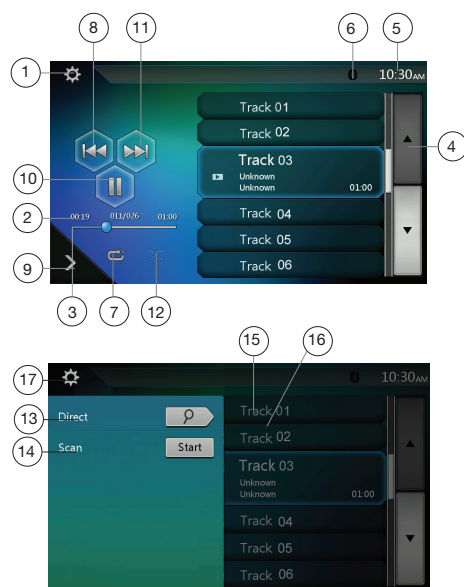
## 8. CD PLAYER OPERATIONS

### Listening to a Disc/Ejecting a Disc

Please refer to Disc Video Player Operations -watching to a disc and Ejecting a disc.

### Showing CD Player Mode Screen

1. After disc is loaded, the play mode is automatically engaged.
2. If disc have been loaded you can touch [Disc Audio] button on main menu to display CD player mode screen.



- 1 - Option button
- 2 - Elapsed playing time indicator
- 3 - Progress bar
- 4 - Page Turning button
- 5 - System time
- 6 - Bluetooth status indicator
- 7 - Repeat button
- 8 - Previous Track /Fast Backward button
- 9 - Shortcut button.
- 10 - Play/Pause button
- 11 - Next Track/Fast Forward button
- 12 - Shuffle button
- 13 - Direct Searching button
- 14 - Scan Start/Stop button

- 15 - Song Title
- 16 - Artist/album Information
- 17 - Close option menu Button

### Operate the CD Player Menu

You can select the button items displayed in the CD player menu by directly touching it in list.

#### Play/Pause Playback

1. Touch [ ] button to pause during playback.
2. Touch [ ] button again to resume playback.

#### Switch to Previous/Next file or track

Touch [ ] or [ ] button during playback to play previous /next file.

- Touching [ ] button starts playback from the beginning of the next track.
- Touching [ ] button starts playback from the beginning of the current track. When this button is touched again within 5 seconds, playback starts from the beginning of previous track.

#### Fast Forward /Fast Backward

1. Touch [ ] or [ ] button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playback with normal speed.

#### Note:

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

#### Repeat Playback

- \* The repeat set as the factory default is Repeat All. Touch [ ] button switch between Repeat Folder Repeat All and Repeat Track.

#### Shuffle Playback

1. Touch [ ] button to shuffle the tracks during playback.
2. Touch this button again to turn off the feature.


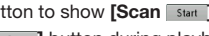
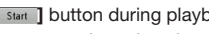
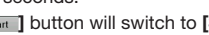

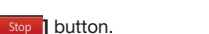
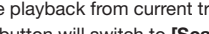

#### Selecting a track on the Track List Screen

This function allows you to select tracks from a displayed list.

1. Touch the track title on the display list. The selected track will start playing.
2. When the desired track is not displayed, touch and flick the track list up or down.
3. Touch the desired track title button. The corresponding track is started playback.


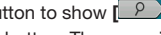
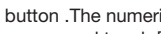





### Scanning the Tracks

1. Touch  button to show  button.
  2. Touch  button during playback.
    - It will play from next track, and each track will display for 10 seconds.
    - The  button will switch to  button.
  3. Touch  button.
    - It will continue playback from current track.
    -  button will switch to  button.
- \* The function will scan all tracks orderly in current folder once. After Scan stopped playback will continue.

### Searching with the Track Number

This operation allows searching using the track numbers recorded on the CDs.

1. Touch  button to show  button.
  2. Touch  button .The numerical keypad will appear on the screen and touch  button.
  3. Input the track number that you want to play back with [0] to [9] key and touch [OK] button.
- Playback starts from the track of the input track number.
- If the input track number does not exist or searching with track number is not allowed, the screen image will not change.
  - Touch the  button will close the numerical keypad.
  - Touch  button will close the option window and display playback screen.



### Listening to Compressed Audio

This system can play audio files stored on disc.  
MP3/ WMA/ AAC

### Tag Display Function

This unit is an ID3 Tag compatible model.

This unit supports the ID3 TAGs of the Version 2.4, 2.3, 1.1 and 1.0.

In displaying, this unit gives priority to the Version 2.3 and 2.4 TAGs.

### Note:

- Some CDs recorded on CD-R/RW mode may not be usable.

### Displaying MP3/WMA/AAC TAG titles

Tag information can be displayed for compressed audio file containing Tag information.

Tag data: title, artist, album

### Precautions when creating MP3 disc

#### • File extensions

1. Always add a file extension “.MP3” or “.mp3” to an MP3 file, and “.WMA” or “.wma” to a WMA and “.m4a” to a AAC file by using single byte letters. If you add a file extension other than specified or forget to add these 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.

2. Files other than MP3/WMA/AAC data cannot be played.

Playing files with a format not supported will be skipped, and the scan, random and repeat playback mode may be canceled.

#### • 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.

#### • Logical format (File system)

1. 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.
2. The folder name and file name can be displayed as the title during MP3/WMA/AAC play .

#### • Entering File and Folder Names

Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly.

#### • Folder structure

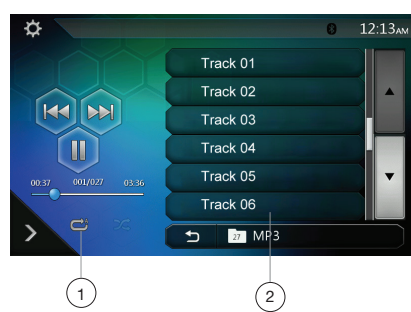
1. A disc with a folder having more than 8 hierarchical levels will conflict with the ISO9660 and playback will be impossible.

#### • Number of files or folders


1. The maximum allowable number of folders is 200 (including root directory); the maximum allowable number of files is 1500 (max. 200 per folder). This represents the maximum number of tracks that can be played back.
  2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC).
- Some noise may occur depending on the type of encoder software used while recording.

- In case of a track recorded at VBR (variable bit rate), the display for the play time of the track may be slightly different from the actual play time. Also, the recommended value of VBR ranges from 32 kbps to 320 kbps.
- After disc selection, the play mode is automatically engaged.

**Playback MP3/WMA/AAC menu**



**1. Repeat Playback**



While playing MP3/WMA/AAC touch  button can switch between Repeat Folder, Repeat All and Repeat Track, Repeat Folder and Repeat All.

**2.Current Folder**

- Showing title of current folder.
- The number on the folder symbol is the number of files and folders number in current folder.
- Touch the title of current folder, playlist will show files and folders in upper folder.

*\*Other operations about playing MP3/WMA/AAC are almost same as CD Player mode.*

**Stop Playback**

1. Touch [  ] button to stop playback.
  2. Touch [  ] button again to resume playback.
- Playback resumes from start of the folder which playing track is in.

- Other operations about playing MP3/WMA/AAC are almost same as CD Player mode.*

## 9. USB/SD AUDIO OPERATIONS

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

### Note:

- This system will not operate or may operate improperly with some USB/SD memory.
- Files protected with any DRM cannot be played.

### Notes on Using USB/SD Memories

#### General notes

- When no support files, the file list display nothing.

#### Notes on the Audio files

- This system can play the MP3/WMA/AAC/FLAC files stored in the USB/SD memory.

#### MP3 files:

- format: MPEG1/2 Audio layer3
- bit rate: 8k ~ 320kbps
- sampling frequency: 8/12/16/24/32/44.1/48KHz
- file extension: .mp3

#### WMA files:

- format: Windows media Audio standard L3 profile
- bit rate: 32 ~ 192KHz
- sampling frequency: 32/44.1/48 KHz
- file extension: .wma

#### AAC files

- format: Advanced Audio Coding LC-AAC,HE-AAC
- sampling frequency: 32/44.1/48 KHz
- file extension: .m4a

#### FLAC files

- format: Free Lossless Audio Codec
- quantization bit rate: 16 or 24 bits
- sampling frequency: 44.1~96KHz
- file extension: .flac

#### Notes on the folder structure

- The folder hierarchy must be within 8 hierarchical levels. Otherwise, playback may be impossible.
- The maximum allowable number of folders is 65535 (including root directory and folders with no MP3 files, WMA AAC/FLAC file).
- The maximum allowable number of files in a folder is 65535.
- You can store the MP3 files, WMA AAC/FLAC together in a folder.
- The system may become slow if the files or folders exceed the limitation above.

### Notes on the Tag titles

The limitations on the Tag titles are same as those in CD Player mode.

### Select USB/SD Audio Mode

Connect your USB/SD memory with MP3 files, WMA AAC/FLAC files to the USB/SD connector. The system will automatically detect the connected device, and the **[USB/SD Audio]** button on main menu will be enabled.

- When an USB/SD memory is already connected Touch **[USB/SD Audio]** button to select the USB/SD Audio mode.

The system changes to the USB/SD Audio mode and starts playback from the previous position or from the beginning.

### Note:

You can select the desired USB/SD by touching the list of USB/SD root menu.

This system indicate the USB/SD as "My USB", "My SD" on the list.





1. Option button
2. Play/Pause button
3. Previous Track /Fast Backward button



4. Next Track/Fast Forward button
5. Repeat button
6. Shuffle button
7. Audio files in list
8. Folders in list
9. Page turning button
10. System time
11. Bluetooth status indicator
12. Album Art
13. Shortcut button
14. Current ID3 info area
15. Elapsed playing time indicator/Seek bar
16. Playback status information
17. Alphabet search button
18. Category list
19. Direct button
20. Scan button



### Playing Audio Files in USB/SD Memory

#### Play/Pause Playback



1. Touch [  ] button to pause during playback.
2. Touch [  ] button again to resume playback.

#### Switch to Previous/Next file

Touch [  ] or [  ] button during playback to play previous/next file.

- Touch [  ] button to start playback from the beginning of the next track.
- Touch [  ] button to start playback from the beginning of the current track; when this button is touched again within about 5 seconds, playback starts from the beginning of previous track.

#### Fast Forward /Fast Backward


Touch [  ] or [  ] button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playback with normal speed.

#### Note:


\*The fast forward and fast backward speed may differ depending on the audio files.

#### Repeat Playback


\* The repeat set as the factory default is Repeat All.

Touch the [  ] button once for Repeat Track, again for Repeat Folder, Repeat All.

#### Shuffle Playback

1. Touch [  ] button to shuffle the tracks in playing folder during playback.
2. Touch this button again to turn off the feature.

#### Alphabet Search

Touch [  ] button to search with alphabet in current list.


#### Album Art work

If MP3 audio file contains album art image in ID3, the picture will be displayed in this area.

#### ID3 Information Area

This area display ID3 information of playing file.

#### Skip Using Seek Bar

Touch  on seek bar and drag it to any position where you want to start playback.

#### Select a Folder on Display List









Touch the folder title on the display list, the display list will display files and folders in selected folder.

#### Selecting a Track on the Display List

This function allows you to select tracks from a displayed list.




1. Touch the track title on the display list. The selected track will start playing.
2. When the desired track is not displayed, touch and flick the track list up or down.
3. Touch the desired track title button. The corresponding track is started playback.

#### Scanning the Tracks



1. Touch [  ] button to show [Scan ] button.
  2. Touch [Scan ] button during playback.
    - It will play from next track, and each track will display for 10 seconds.
    - The [Scan ] button will switch to [Scan ] button.
  3. Touch [Scan ] button.
    - It will continue playback from current track.
    - [Scan ] button will switch to [Scan ] button.
- \* The function will scan all tracks orderly in current folder once. After Scan stopped, playback will continue.

#### Searching with the Track Number

This operation allows searching to use the track numbers in playing folder.

1. Touch [  ] button to show [  ] button.
2. Touch [  ] button. The numerical keypad will appear on the screen.
3. Input the track number that you want to play back with [0] to [9] key and touch [OK] button.

Playback starts from the track of the input track number.

- If the input track number does not exist or searching with a track number is not allowed, the screen image will not change.
- Touch [  ] button will close the numerical keypad.
- Touch [  ] button will close the option window and display playback screen.

