DVD MULTIMEDIA STATION WITH BUILT-IN NAVIGATION & 6.2" TOUCH PANEL CONTROL
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

NOTE:
- The items listed outside of the frames are the commercial products generally sold.
- CCA-750, 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.

• 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 reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio 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:**

Changes or modifications to this product unapproved by the manufacturer will void the warranty and will violate FCC approval.
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.

**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, 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

- 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.

Ball-point pen

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 missoperation 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, opening the operation panel 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, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple 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.

- Pandora, the Pandora logo, and the Pandora trade dress are trademarks or registered trademarks of Pandora Media, Inc. used with permission.

- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license. DivX Certified® to play DivX® video, including premium content. Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

ABOUT DivX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that has passed rigorous testing to verify that it plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DivX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.
4. OPERATIONAL PANEL

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 second 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.

[AUX IN] Connector.
- This is used for Bluetooth phone.

[Microphone]
- 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.

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

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

[Reset] Button
- Press this button to hardware reset the unit.

[Disc slot]
- Only navigation map card is available and don’t remove it when unit is power on.

[Menu]
- Press to eject disc from the unit.

[Menu]
- 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]
- Press this button to hardware reset the unit.

[Cover]
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.

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### Remote Control Functions

You can use the remote control unit to control the NX404.

**Note:**

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

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**[ ► / ■ ] 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.

**[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.
- Press this button to open track search window while playing CD.

**[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.
- 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 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**

- No function.

**[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.

[ ▼► ], [ ▼► ] 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.

[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 - Pandora---Touch the button to display the Pandora mode.
3 - Bluetooth Audio---Touch the button to display the Bluetooth Audio mode.
4 - Disc Audio---Touch the button to display the Disc Audio mode.
5 - iPod Audio---Touch the button to display the iPod Audio mode.
6 - Navigation---Touch the button to display the Navigation mode.
7 - HDMI---Touch the button to display the HDMI mode.
8 - USB Audio---Touch the button to display the USB Audio mode.
9 - AUX1---Touch the button to display the AUX1 mode.
10 - Disc Video---Touch the button to display the Disc Video mode.
11 - USB Video---Touch the button to display the USB Video mode.
12 - iPod Video---Touch the button to display the iPod Video mode.
13 - Telephone---Touch the button to display the Telephone mode.
14 - Camera---Touch the button to display the Camera mode.
15 - AUX2---Touch the button to display the AUX2 mode.
16 - Setting button---Touch the button to display the Setting menu.
17 - Audio off---Touch the button to make audio source voice off.
18 - 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.

<table>
<thead>
<tr>
<th>Playable discs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD video discs</td>
</tr>
</tbody>
</table>

**Playable media files**

<table>
<thead>
<tr>
<th>MP3/WMA/AAC</th>
<th>DivX</th>
<th>MP4</th>
</tr>
</thead>
</table>

**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 two 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.

**About playing a CD-R/CD-RW disc (MP3, WMA)**
This player can play CD-R/CD-RW discs previously recorded in music CD format (MP3, WMA).

**About playing a DVD-R/RW or DVD+R/RW disc**
MP3/WMA files recorded on DVD-R/RW and DVD+R/RW discs can be played.

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

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

**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”, “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.
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.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kid Safe</td>
<td>Kid Safe</td>
</tr>
<tr>
<td>G</td>
<td>General Audiences</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance Suggested</td>
</tr>
<tr>
<td>PG-13</td>
<td>Parents Strongly Cautioned</td>
</tr>
<tr>
<td>PG-R</td>
<td>Parental Guidance Restricted</td>
</tr>
<tr>
<td>R</td>
<td>Restricted</td>
</tr>
<tr>
<td>NC-17</td>
<td>No One 17 And Under Admitted</td>
</tr>
<tr>
<td>Adult</td>
<td>Only Adult</td>
</tr>
</tbody>
</table>

• 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, opening the operation panel 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 [Δ] 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. Change DVD System Settings
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.

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.
2. Touching [ ] button turns the Key Pad to the chapter number input mode.
3. 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. Change DVD System Settings

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 - Information button
18 - Direct chapter or title searching 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 [Input] 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 [ ] 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 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 [OK] 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: ( ) 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: ( ) 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 [ ] button on DVD Player mode screen, Playback status is displayed on screen.

### Play MP4/DivX video files
This system can play video files (AVI/MP4, etc.) stored on disc.

**Note:**
* DivX Certified® to play DivX® video, including premium content.

### 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 - Shortcut button
11 - Repeat button
12 - Audio button
13 - Subtitle button

Operating 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 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 it 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 [ ] button.
2. Touch [ ] button once for Repeat Chapter, again for Repeat Title.
3. Touch [ ] button again for Repeat off.

Switching Audio
Some video files will have two or more audio channels; you can switch among the audio channels during playback.
1. Touch [ ] 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 [ ] 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.

Play DivX Video-On-Demand Files
You must complete a one-time registration process in order to play a purchased DivX movie on your DivX device.
Registration is not needed to play free DivX movies you create or download.

Getting DivX Registration Code and Registering Your Device
1. Touch the [Settings] button on the Main Menu to access [General] setup menu.
2. Touch [General] setup button, and touch [DISPLAY] button on the right side of “DivX® Registration”.
   You will find “10 digit DivX registration code on the screen.
3. Enter this code in DivX Player to create a “Registration video” disc on your PC. Once this “Registration video” disc has played on this device, registration is done, and you can enjoy some purchased DivX movies on your device. For detail please visit “http://www.divx.com/vod”

4. Touch [OK] to close the pop-up window.

**Note:**
After you register your device, this setting menu is changed to “DivX® Deregistration”

**Deregister your device**

Even after you have finished registration, you can deregister your device if you will not watch purchased movies on this device anymore.

1. Touch the [Settings] button on the Main Menu to access [General] setup menu.

2. Touch [General] setup button, and touch [SET] button on the right side of “DivX® Deregistration”. You will be asked if you want to deregister this device, then touch [YES] in the pop-up screen.

3. Note 10 digit “Deregistration code” in the pop-up screen. Keep this code until you deregister this device on your PC.

4. Deregister this device by using the “Deregistration code” on your PC. For detail please visit “http://www/divx.com/vod”

**Playable Video Disc Formats**

This system can play video files stored on disc.

**.avi files**
- format: Divx 4/5/6
- 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

**.divx files**
- format: Divx 3.11/4/5/6
- 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.

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.
  1. 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 [Scan] button to show [Scan Start] button.
2. Touch [Scan Start] button during playback.
   - It will play from next track, and each track will display for 10 seconds.
   - The [Scan] button will switch to [Scan Stop] button.
3. Touch [Scan Stop] button.
   - It will continue playback from current track.
   - [Scan Stop] button will switch to [Scan Start] 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 [S] button.
2. Touch [S] button. The numerical keypad will appear on the screen and touch [OK] 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 [Back] button will close the numerical keypad.
   - Touch [Back] button will close the option window and display playback screen.

Rotation Effect On/Off
This operation allows turn on/turn off rotation effect.
The factory default is On.
1. Touch [button to show [Rotation effect] button
2. Touch [On/Off] button will turn on the Rotation effect.
3. Touch [On/Off] button will turn off the Rotation effect.

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.

Displaying MP3/WMA/AAC TAG titles
Tag information can be displayed for compressed audio file containing Tag information.
MP3: title, artist, album
WMA: artist
AAC: can not display tag information.

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.
  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.

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, play list 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.
This system can play audio files (MP3/WMA/AAC/FLAC) 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 simply copying desired audio files into it.

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

### Notes on Using USB 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 memory.

1. **MP3 files:**
   - format: MPEG1/2 Audio layer3
   - bit rate: 8k ~ 320kbps
   - sampling frequency: 8/12/16/24/32/44.1/48KHz
   - file extension: .mp3

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

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

4. **FLAC files**
   - format: Free Lossless Audio Codec
   - quantization bit rate: 16 or 24 bits
   - sampling frequency: 44.1~192 KHz
   - 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 Audio Mode
Connect your USB memory with MP3 files, WMA AAC/FLAC files to the USB connector. The system will automatically detect the connected device, and the [USB Audio] button on main menu will be enabled.
- When an USB memory is already connected
  Touch [USB Audio] button to select the USB Audio mode.

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

**Note:**
This system has two USB connectors and can connect two USB.

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

This system indicate the USB as “My USB1”, “My USB2” on the list.

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1. Option button
2. Play/Pause button
3. Previous Track /Fast Backward button
4. Next Track/Fast Forward button
Playing Audio Files in USB 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.
1. Touch [ ] 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.

Album Art work
If current 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: song title, artist information, album information, number of current file/total number in current folder, elapsed playing time/total time of current 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 [Scan Start] button to show [Scan Stop] button.
2. Touch [Scan Stop] button during playback.
   • It will play from next track, and each track will display for 10 seconds.
   • The [Scan Stop] button will switch to [Scan Start] button.
3. Touch [Scan Stop] button.
   • It will continue playback from current track.
   • [Scan Stop] button will switch to [Scan Start] 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 [Clear] button will close the numerical keypad.
   • Touch [ ] button will close the option window and display playback screen.
10. USB VIDEO OPERATIONS

This system can play USB video files (MP4, 3GP etc.) stored in an USB memory which is recognized as "USB Mass Storage Class device". You can use your USB memory as an video device by simply copying desired video files into it.

Note:
• This system will not operate or may operate improperly with some USB memory.
• Files protected with any DRM cannot be played.

Notes on Using USB Memories

General notes
When no support files, the file list display nothing.

Notes on the folder structure
The limitations on the folder structure are same as those in USB Audio Player mode.

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

Select USB Video Mode

Connect your USB memory with video files to the USB connector. The system will automatically detect the connected device, and the [USB Video] button on main menu will be enabled.

• When an USB memory is already connected
  Touch [USB Video] button on main menu to select the USB Video mode.

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

Note: This system has two USB connectors and can connect two USB.

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

This system indicate the USB as “My USB1”, “My USB2” on the list.

Playing Video Files in USB Memory

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.

Playable Video Format

*.mp4 files
• format: MPEG4 Visual
  MPEG4 AVC (H.264)
• Picture size: 1280 X 720 (MPEG4 Visual)
  1920 x 1080 (MPEG4 AVC)
• Audio format: AAC
• Audio sampling frequency: 32/44.1/48 KHz

*.m4v files
• format: MPEG4 Visual
  MPEG4 AVC (H.264)
• 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

*.3gp files
• format: MPEG4 Visual
  H.263
• Audio format: AAC, AMR
• Audio sampling frequency: 8/16/32/44.1/48 KHz

Play/Pause Playback

1. Touch [ ] button to Pause playback.
2. Touch [ ] button to resume playback.
Switch to Previous/next file
Touch [  ] or [  ] button during playback to play previous /next file.
• Touch [  ] button to starts playback from the beginning of the next track.
• Touch [  ] button to starts 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.

Repeat Playback
* The repeat set as the factory default is Repeat All. Touch the [ ] button once for Repeat Track, again for Repeat Folder, again for Repeat All.

Skip Using Seek Bar
Touch the SEEK on seek bar and drag it to any position where you want to start playback.

Switching USB Video Menu
Touch [  ] button playback will be paused, and the screen will switch to USB Video List.

Switch to Previous/next file
Touch [  ] or [  ] button during playback to play previous /next file.
• Touch [  ] button to starts playback from the beginning of the next track.
• Touch [  ] button to starts 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.

Repeat Playback
* On USB Video menu screen, playback status is pause. Touch [ ] button to resume playback. The screen will go to video screen automatically.

Play/Pause Playback
Touch [ ] button to resume playback. The screen will go to video screen automatically.

Switch to Previous/next file
Touch [  ] or [  ] button during playback to play previous /next file.
• Touch [  ] button to starts playback from the beginning of the next track.
• Touch [  ] button to starts 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.

Repeat Playback
* The repeat set as the factory default is Repeat All. Touch the [ ] button once for Repeat Track, again for Repeat Folder, again for 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.

Current File Information Area
This area displays information of current video file: file name, number of current file/total number in current folder, Elapsed playing time/total time of current file.

Skip Using Seek Bar
Touch SEEK on seek bar and drag it to any position where you want to start playback.

Select a Folder on Display List
This operation is same as this in USB Audio mode.

Selecting a Track on the Display List
This operation is same as this in USB Audio mode.

Scanning the Tracks
This operation is same as this in USB Audio mode.

Searching with the Track Number
This operation is same as this in USB Audio mode.
11. iPod OPERATIONS

iPod/iPhone can be connected by using the connector cable supplied with the iPod/iPhone, but in this case, you can enjoy its audio sound only. To enjoy video movies stored in the iPod/iPhone with video displaying them on this unit, it is required to use the special connector cable (CCA-750) separately sold. However the new products such as iPhone 5, iPhone 5s and iPhone 5c, iPod touch® (5th generation) and iPod nano® (7th generation) only can connect 10-pin cable (no video signal output), so these new products cannot display video in video mode.

Note:
- This system will not operate or may operate improperly with unsupported versions.
- For detailed information on the playable iPod/iPhone models, see our home page: www.clarion.com

Notes on using iPod/iPhone
- Do not connect an iPod/iPhone to this unit with a headphone connected to the unit.
- After the iPod/iPhone has been connected to this unit, the buttons of iPod are disabled for operation in the Music mode. In the Video mode, do not operate the buttons of iPod.
- When in the iPod mode, the screen image input from the AUX terminal, is output to the rear monitor.
- When no data is present, the title display will remain blank.
- Set the language setting of iPod/iPhone to English before connecting your iPod/iPhone. Some characters of the other languages may not be displayed correctly in this system.

Precautions on battery consumption:
If the iPod/iPhone is connected to this unit when the internal battery of iPod/iPhone has run down, this function may not operate correctly. You must connect the iPod/iPhone after charging the battery if it has run down.

iPod Audio Menu Operations
Connect your iPod/iPhone to the USB connector. The system will automatically detect the connected device and the iPod Audio button will be enabled for operation on the Main Menu screen.

Note:
1. This system has two USB connectors, please connect to the USB with the label of "iPod/iPhone". By connecting another USB cable, iPod/iPhone can’t play back the music.
2. When iOS device is connected via both USB and Bluetooth at the same time and select iPod mode, iOS device is controlled by USB connection.
3. When the iPod mode and operate the audio player or internet radio other than iPod, there is a case that iPod doesn’t playback correctly. Please don’t operate the audio player or internet radio other than Pandora when the Pandora mode.
4. During iOS device is connected by Bluetooth, and select the iPod mode, the volume level is controlled by only iOS device.
5. During iOS device is connected by Bluetooth, Album jacket image is not displayed.

The playback starts after a while, from where the iPod/iPhone has been paused.
- When iPod/iPhone is already connected

Touch the [ ] button on the Main Menu screen. The system changes to the iPod mode, and starts playback from the previous position.

iPod Audio ID3 Information

1 - Option button
2 - Repeat button
3 - Shuffle button
4 - Previous Track / Fast Backward button
5 - Play/Pause button
6 - Next Track / Fast Forward button
7 - ID3 Information
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 starts playback from the Touch of the next track.
- Touch [ ] button to starts 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.

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

Repeat Playback
* depend on iPod.
1. Touch the [ ] button once for Repeat Track, again for Repeat All, again for Repeat Off.

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

Album Art work
If current 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: song title, artist information, album information (Genre, playlist and release time).

Category List
Select different category songs to play. The category is same as the iPod/iPhone.
Simple Control Mode

1 - Simple Control button
2 - Video Mode button

- If the Simple Control is set to [ ] in option menu, the screen will become Simple Control Mode. It can also display the video of iPod/iPhone regardless it is iPod Audio or iPod Video mode. But only “Previous Track”, “Play/Pause” and “Next Track” can be operated.
- Touch [ ] the video will play from iPod.

Skipping a Track (Simple Control Mode)

Touch the [ ] or [ ] button during playback. Tracks are skipped, as many times as the button is touched, and playback starts.
- Touch the [ ] button to starts playback from the beginning of the next track.
- Touch the [ ] button to starts playback from the beginning of the current track.
When this button is touched again within about 5 seconds, playback starts from the beginning of the previous track.

Note: In Simple Control Mode, the best way is to control the iPod just on iPod.

Selecting a list item from a list screen

(1). Touch the list screen and flick up or down to scroll the list.
(2). Touch a desired list item on the screen to display the corresponding list of tracks.
(3). Touch the desired track name on the list to play it.

iPod Video Menu Operations

Connect your iPod/iPhone to the USB connector. The system will automatically detect the connected device and the iPod Video button will be enabled for operation on the Main Menu screen.

- When an iPod/iPhone is already connected

Touch the [ ] button on the Main Menu screen. The system changes to the iPod Video mode, and starts playback from the previous position. Touch MENU button on Operational Panel to return to the Main Menu.

- Viewing video data in the iPod/iPhone (only for the iPod/iPhone with video features)

When you connect an iPod/iPhone with video features by using the optional connector cable for iPod/iPhone with video, you can enjoy the video data and slide show data stored in the iPod/iPhone and show them on the display of this unit (and the rear monitor if connected).

iPod Video ID3 Mode Screen
1 - Option button
2 - Repeat button
3 - Previous Track button
4 - Play/Pause button
5 - Next Track button
6 - Playing File title
7 - Category list
8 - Next Page[ ] / Previous Page[ ] button
9 - System time
10 - Bluetooth Status indicator
11 - Playback Status indicator
12 - Art work
13 - Shortcut button
14 - Progress bar

Note:
This icon shows only when 2-Zone on. This icon is in some screen pictures and none in other some pictures. It is better to be same setting in a manual. (Also, Navi icon shows owned by setting. (There is no Navi screen in this manual))

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 starts playback from the beginning of the next track.
• Touch [ ] button to starts playback from the beginning of the current track.

Repeat Playback
* The repeat set as the factory default is depend on iPod/iPhone.
1. Touch the [ ] button once for Repeat One, again for Repeat All, again for Repeat Off.

Album Art work
If current video file contains album art image in ID3, the picture will be displayed in this area.

ID3 Information Area
The area is display the title of the playing file.

Category List
Select different category movies to play. The category is same as the iPod/iPhone.

iPod Video List Mode Screen

This operation is same as this in iPod Audio mode.

iPod Video Simple Control Mode Screen

This operation is same as this in iPod Audio mode.

iPod Video Play Mode Screen

1 - Previous Track/Fast Backward button
2 - Play/Pause button
3 - Next Track/Fast Forward button
4 - Progress bar
5 - Menu List button
6 - Repeat button
7 - System time
8 - Bluetooth status indicator
9 - Playback information

Play/Pause Playback
1. Touch [ ] button to pause during playback.
2. Touch [ ] button again to resume playback.

Switch to Previous/Next Track
• Touch [ ] or [ ] button during playback to play previous/next track.
• 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 the previous track.

Fast Forward/Fast Backward
Touch [ ] or [ ] button and hold more than 2 seconds to start fast backward or fast forward during playback. Release the button will continue playback with normal speed.

Note:
*The fast forward and fast backward speed may differ depending on the video files.

Repeat Playback
* The repeat set as the factory default is Repeat Off.
Touch the [ ] button once for Repeat One, again for Repeat All, again for Repeat Off.

Note:
The operation in iPod video mode is as same as iPod Audio mode. Please refer to the iPod Audio Mode operation.

Note:
Video playback is not available on all iPod/iPhone devices. Please contact your Clarion dealer for details. An optional connection cable or accessory may be required for this feature.

Note:
• “AUDIO ONLY” is displayed when the automobile is moving.
• Image data may not be played back according to the status of the iPod/iPhone
• The volume setting of video data is relatively lower than audio data. Be sure to lower the volume setting before switching to the other mode.

iPod Audio Bluetooth Mode
When your iPod/iPhone have connected via Bluetooth to this unit, you can also enter iPod Audio mode. The operation is same as the normal iPod Audio mode.
12. Pandora® OPERATIONS

If you have any issues with the Pandora application on your mobile phone, please direct them to pandora-support@pandora.com.

Selecting the Pandora Mode

1. Turn on Pandora function of your iPod.
2. Connect your iPod/iPhone/Android to the unit.
3. When iPod/iPhone/Android is already connected, touch the [Pandora] icon on the Main Menu screen.
   • Pandora mode now playing screen / Pandora mode information screen

1 - Art Work
2 - Progress bar
3 - Settings button
4 - Thumbs down
Touch this button Thumbs-down current track and play next track.
5 - Play/Pause button
Use to control playback and pause.
(1). Touch the button during playback. Playback pauses.
(2). To resume playback touch the button again.
6 - Next track button
7 - Thumbs up
8 - System time
9 - List button
Touch this button to show List Screen
10 - Current station name
11 - Current title.
Touch icon to store current title to track favorites list.
12 - Current artist.
Touch icon to store current artist to artist favorites list.
13 - Current album name.
• Skipp next track (Pandora mode)
Touch [     ] button during playback, tracks are skipped and starts playback from the beginning of the next track.

Note:
• Some track are not able to be skipped.

• If skip limit has been reached (Skip 6 tracks in 1H), this function will not available.
• Track rating
Touch [     ] or [     ] button to Thumbs down or Thumbs up current track, and the button will light.
Note:
• Touch [     ] button will skip to next track (skip limit has not been reached).
• Some track is not able to be rated (i.e. audio ads and shared station content). The thumbs buttons will disable.

• Bookmarking
Touch [     ] button to store current title or artist to track favorites list.

Note:
• Some track are not able to be bookmarked (i.e. audio ads). In this case the bookmark buttons will disable.
• Pandora Mode Station List

1 - [     ] button
Touch this button to display Information Screen.
2 - [     ] button
Touch this button to sort the list by first letter, touch again to sort the list by date.
3 - Station list, touch to select station play.
When the desired station is not displayed, touch and flick the station list up or down.

• Pandora Mode Station List

1 - [     ] button
Touch this button to display Information Screen.
2 - [     ] button
Touch this button to sort the list by first letter, touch again to sort the list by date.
3 - Station list, touch to select station play.
When the desired station is not displayed, touch and flick the station list up or down.

• Pandora Mode Station List
1 - Add a new Station
2 - Select a device
   • This “Select Device” key is use when connect
     iPhone by the USB and connect the Android by
     Bluetooth. The default setting, the USB connection
     has priority
3 - Close the setting screen

Pandora Bluetooth Mode

When your mobile phone have connected to the unit
via bluetooth. You can also enter the Pandora mode.
The operation is same as the normal Pandora mode.

1 - BT mode
When connected via bluetooth. This icon will change
from USB to BT

Note:
1. Pandora internet radio may not be available in all
   areas due to government restrictions.

2. When the Pandora mode start, this system chooses
   the previously connected device (Android or iOS).
   When it is connected Android(BT), iPhone(BT or USB)
   together, and “Do not show again” is not checked,
   display the popup of choose device.

3. When connect the mobile phone by Bluetooth or
   USB when the Pandora mode, there is a case the
   change device button works correctly. We recommend
   that after finished the Pandora mode, then connect
   other mobile phone.

4. When the Pandora mode and operate the audio
   player or internet radio other than Pandora, there is a
   case that Pandora doesn’t playback correctly. Please
   don’t operate the audio payer or internet radio other
   than Pandora when the Pandora mode.

5. During Pandora playback in the Pandora mode
   with the Bluetooth connection, the volume level is
   controlled only by the mobile phone side. (Both iOS
devise and Android)
13. Bluetooth® AUDIO PLAYER OPERATIONS

Some Bluetooth cellular phones have audio features, and some portable audio players support the Bluetooth feature. These devices will be called as “Bluetooth audio players” in this manual. This system can play audio data stored in a Bluetooth audio player.

Note:
• This system will not operate or may operate improperly with some Bluetooth audio players.
• For detailed information on the playable Bluetooth audio players, see our home page: www.clarion.com

Selecting the Bluetooth Audio Mode

1. Touch the [Bluetooth Audio] button to select the Bluetooth Audio mode.
   The system changes to the Bluetooth mode. If the connection with a Bluetooth audio player has been already established, you may select the Music function.
2. Press MENU button on Operational Panel to return to the Main Menu.
   • When the connection with blue icon a Bluetooth audio player has been established, the [ ] icon is displayed at the top of the screen.

Bluetooth Audio Player Settings

You can confirm various information concerning about the Bluetooth Interface features.

1. Touch the [ ] button to display the information on the screen.
2. When you finish confirming the Bluetooth information, touch the [ ] button to return to the previous screen.

Registering your Bluetooth Audio Player (Pairing)

You can register up to 5 Bluetooth audio players. Your mobile phone Bluetooth version is under 2.0. Please input PIN code “0000”.

1. Turn on the power of the Bluetooth audio player you wish to register.
4. Touch your desired device button and touch [5] button to register for the Bluetooth audio player. Then select an image of this device.
And select a type of this device.

When the pairing operation completes, the registered Bluetooth audio player is set as the current device, after selecting the favorite icon, the display return to the device list screen. Touch [ ] button, the display will return to the Bluetooth audio mode screen.

• To delete the Bluetooth audio player registration
  1. Touch the [ ] button to delete the device. A confirmation screen is displayed.
  2. Touch the [ ] button to confirm delete.

**Selecting the Bluetooth Audio Player**

To change the current Bluetooth audio player to the other device which is already registered, perform the following operation.

1. Touch the device button to display the Device Select screen.
2. Touch the currently connected device button, then touch the [ ] button to disconnect the active device.
3. Touch the desired Device button you wish to use.
   Touch [ ] button to select it as your active device. The corresponding cellular phone is set as current telephone.
4. Touch the [ ] button to return to the previous screen.

**Controlling the Bluetooth Audio Player**

**Note:**
- Occasionally, depending on the environment, playback sounds may be fragmented, or switch noises may be generated.

**Playing Music**

After the connection with a Bluetooth audio player is established, the play mode is automatically engaged.
- When playback is not started for some devices, touch the [ ] button manually.

**Pausing Playback**

1. Touch the [ ] button during playback.

**Playback Pauses.**

2. To resume playback, touch the [ ] button. Playback resumes.

**Skipping a Track (searching)**

3. Touch the [ ] button during playback.

**Stopping Playback**

4. Touch the [ ] button during playback. Tracks are stopped, touch the [ ] button to playback the first Track.

**Show Track List**

5. Touch the [ ] button to show the current track list. Touch the [ ] button to show all of the lists. And you can playback any tracks by touch the items in the list.
14. Bluetooth® TELEPHONE OPERATIONS

When the connection with your Bluetooth cellular phone is established, the following functions are available on this unit:

- Listening to your telephone calls on the car speakers.
- Answering to an incoming call.
- Making a call using the Ten-Key pad screen.
- Making a call using the Phone Book data in the selected cellular phone.
- Making a call using the History data of the dialed/received calls.

**Note:**

- Some cellular phones may not be able to transfer the Phone Book data to the head unit.
- The Phone Book data transmission may take a long time. The operations of sending calls are disabled during the data transmission.

**Select the BT Phone Mode**

1. Touch the [Bluetooth Telephone] button to select the Bluetooth Telephone mode.

The Telephone screen is displayed.

2. Press MENU button on Operational Panel to return to the Main Menu.

- When no Bluetooth Telephone connected, the icon [ ] is displayed at the top of the screen.

- When the connection with a Bluetooth Telephone has been established, the icon [ ] and signal level indicator are displayed at the top of the screen.

1. Touch the [ ] button to display the information on the screen.

2. Perform setting for the desired item. See the following sections for detail.

3. When you finish confirming the Bluetooth information, touch the [ ] button to return to the previous screen.

**Setting Automatic Connection**

The system automatically reconnects the cellular phone after the connection is lost or the system is restarted.

- The factory default setting is “ON”. Touch the [ ] or [ ] button of the Automatic Connection item to set the function ON or OFF.

**Setting Automatic Answer**

If a call comes in, answer automatically after 5 seconds.

- The factory default setting is “OFF”. Touch the [ ] or [ ] button of the Automatic Answer item to set the function ON or OFF.

**Setting Microphone Gain**

You can adjust the input level of the microphone in 16 levels.

- Touch the level indicator button of the Microphone Gain item to adjust the input level.

**Note:**

- The input level of the microphone can be affected by its surroundings. Adjust the level if the person on the other end of the telephone has a reception problem.

**Bluetooth Telephone Settings**

You can confirm various information concerning about the Bluetooth Interface features.
Registering Your Cellular Phone (Pairing)

You can register up to 5 cellular phones. The registering method is as same as “Registering your Bluetooth audio player”.

Your mobile phone Bluetooth version is under 2.0. Please input PIN code “0000”.

1. Turn on the power of the cellular phone you wish to register.

2. Touch the Device button [ ] to display the Device Select screen.

3. Touch the [ ] button to display the Inquiring Device screen.

4. Touch your desired Cellular button to select the button for the cellular phone to be registered, and touch [ ] button to register for the Bluetooth cellular phone.
   - You cannot select the Cellular button of which another cellular phone is already registered. Select a blank Cellular button.

5. If entering the Pass Key code is prompted on your cellular phone, enter the Pass Key code set in this unit.
   - You can change the Pass key setting of this unit from the Bluetooth Info screen under the Telephone Settings screen.

When the pairing operation completes, the registered cellular phone is set as the current telephone, and the display returns to the Telephone screen.

- To delete the cellular phone registration
  1. Touch the [ ] button to delete the device. A confirmation screen is displayed.
  2. Touch the [ ] button to confirm delete.

Select the Cellular Phone

To change the current cellular phone to the other device which is already registered, perform the following operation.

1. Touch the [ ] button to display the Device Select screen.

2. Touch the currently connected device, then touch [ ] button to disconnect the active device.

3. Touch the desired Device button you wish to use. Touch [ ] button to select it as your active device. The corresponding cellular phone is set as the current telephone.
   - If the power of the cellular phone is not turned on, turn it on.
   - The cellular phone may prompt to acknowledge the Bluetooth connection or to enter the Pass Key code of this unit. Perform these operations according to the message displayed.

4. Touch the [ ] button to return to the previous screen.

Obtaining the Phone Book Data

Sending the Phone Book data from the cellular phone enables you to make a call using the Phone Book function from this unit.

Telephone Operations

Making a call using the Ten-Key pad

1. Touch the [ ] button to display the Ten-Key pad screen.

2. Enter the telephone number by using the Ten-Key pad displayed on the screen.
3. Touch the (Send) button to call the entered number.
   • The following Telephone Interrupt screen is displayed during phone call.

   • Touch the button to talk by using the cellular phone and canceling the hands-free function (Private Mode). To return to the hands-free mode, touch the button again.
   • Touch the button to mute the microphone. Now you can hear the other side, but the other side cannot hear your side.
   • Touch the button to hold the current phone call, now you can answer to the other incoming call. Touch again to talk with previous call

4. When the call is finished, touch button to hang up.

   Note:
   • Depending on some special cellular phone, the Telephone Interrupt screen may be closed and the connection with this system may be disconnected when entering the Private mode.

Making a Call Using the Phone Book
You can use the Phone Book data obtained from the cellular phone to make a call from this unit.

Note:
• Before using this function, the Phone Book data must be sent from the cellular phone.
• Only the Phone Book items with at least one telephone number registered in the captured Phone Book data are displayed on the Phone Book screen.

1. Touch the button to display the Phone Book screen.
2. Touch the desired name button you wish to dial.
3. Touch the button to call the specified number. The Telephone Interrupt screen is displayed, and calling starts.
   • When the call is finished, touch the button to hang up.

Making a Call Using the History
The system will memorize the Dialed/Received calls record data in the memory. You can confirm it and use it to make a call from this unit.

1. Touch the button. The History List screen is displayed.
   • The items are sorted by Dialed, Missed and Received calls.
   • Flick the list up and down to scroll the list.
2. Touch the desired History item key you wish to dial.
3. Touch the button to call the specified number. The Telephone Interrupt screen is displayed, and calling starts.
   • When the call is finished, touch the button to hang up.

Answering to an incoming call
When a call comes in, the following Telephone Interrupt screen appears.

You can answer to the incoming call on this system by the following operation.
1. Touch the button to answer the call.
2. When the call is finished, touch the button to hang up.
15. TUNER OPERATIONS

Listening to the Tuner
1. Touch the Tuner button on the main menu display. The tuner mode screen is displayed.
2. Touch the [FM1/FM2/FM3/AM] button to select the radio band. Each time the button is touched, the radio reception band changes in the following order: FM1->FM2->FM3->AM -> FM1...

Manual memory
1. Touch the desired band button to select the band you wish to store.
2. Tune to a station you want to store using the seek tuning, step tuning, or preset tuning.
3. Touch and hold the desired Preset button you want to store for about 2 seconds.

Auto Store
The Auto Store is a function for storing up to 6 stations that are automatically searched in sequentially. If the number of receivable stations cannot reach to 6, the previous stored station remains.
1. Touch the [FM1/2/3/AM] button to select the desired band. (FM or AM)
2. Touch the [FM1/2/3/AM] button, and then touch the [Start] button to start the Auto Store.
A beep sounds and the stations with good reception are stored automatically to the preset list.

Notes:
1. After auto store, the previous stored stations will be overwritten.
2. The unit has 4 bands, but FM3 and AM can store by Auto Store function.

Preset Scan
The Preset Scan receives the stations stored in the preset memory in order. This function is useful when searching for the desired station in memory.
1. Touch the [FM1/2/3/AM] button to select the desired band. (FM or AM)
2. Touch the [Start] button to start the Preset Scan.
The unit starts scanning each station for 10 seconds sequentially. But the station stored is not a valid station; the scanning time is only 2 seconds.
3. When the desired station is tuned in, touch the [Start] button again to stay in that station.

DX/Local Setting
The DX / Local setting changes the tuner sensitivity in order to separate closely spaced stations. This feature is useful in areas that have many radio stations in close proximity.

1. Pr eset Scan button
2. Seek down button
3. Seek up button
4. Step down button
5. Step up button
6. Frequencies display
7. System time
8. Bluetooth status indicator
9. Preset channel list
10. DX/Local indicator
11. Band button
12. Shortcut button
13. Option button

Seek Tuning
1. Touch the [FM1/2/3/AM] button to select the radio band (FM or AM).
2. Touch the [FM1/2/3/AM] button or [FM AM] button
• When touch the [FM1/2/3/AM] button, the station is searched in the direction of higher frequency.
• When touch the [FM1/2/3/AM] button, the station is searched in the direction of lower frequency.

Step Tuning
1. Touch the [FM1/2/3/AM] button to select the radio band (FM or AM).
2. Touch the [FM1/2/3/AM] button in frequency menu to tune up or down by one step.

Recalling a preset station
1. Touch the [FM1/2/3/AM] button to select the desire band (FM or AM) on the tuner.
2. Press the preset station (1 to 6) on Preset list.
16. HDMI MODE

Wire Connection of HDMI Mode

iPhone 4, iPhone 4S, iPhone 5, iPhone 5s and iPhone 5c can be connected by using the connector cable supplied with the device and HDMI cable (sold in the market) and digital AV adapter.

Note:
The following is part of the wiring example. Depending on the device, there is a case to connect to the device directly with the CCA-771. Depending on the adapter or device, there is a case that the audio noise and video noise is generated.

(1) Connection with the iPhone 4 and iPhone 4S

iPhone 4, iPhone 4S

NX404

HDMI cable sold in the market

Apple Genuine 30pin cable

Apple Genuine 30pin-Digital AV adapter

(2) Connection with the iPhone 5, iPhone 5s and iPhone 5c

iPhone 5, iPhone 5s and iPhone 5c

NX404

HDMI cable sold in the market

Apple Genuine Lightning™ cable

Apple Genuine Lightning-Digital AV adapter

(3) Connection with the Android Phone

Android Phone

NX404

Micro USB cable sold in the market

HDMI cable sold in the market

MHL adaptor sold in the market

(4) Connection with the equipment with HDMI output

Equipment with HDMI output

NX404

HDMI cable sold in the market
Select HDMI source

Touch the HDMI menu button, then appear the screen of the connected device.

This HDMI mode is only indicate the screen of the iPhone, Android. Can't operate by the touch screen of NX404

Note:
Depending on the application and model of the mobile phone, there is the case that black frame appears around the screen.
17. AUX

External peripheral devices, including a game console, camcorder, navigation unit, iPod/iPhone, etc. can be connected to the AUX connector on the front or back of this unit using the A/V media cables.

Switching to AUX IN
Touch [AUX1] /[AUX2] button on Main Menu to select desired mode (when unit is reading). If the external device connected to AUX input have audio signal, the unit will broadcast audio of external device. Press Menu button on Operational Panel to return to the Main Menu.
You cannot directly control external devices connected to AUX input.

18. CAMERA INPUT OPERATIONS

Switching to Camera mode
Touch [Camera] button on Main Menu.
The LCD will display the external camera video. The screen will display “No Video Signal” message, if a valid camera is not connect to this head unit.
Press MENU button on Operational Panel to return to the Main Menu.

Setting Camera audio
Select “ON” button in the Camera Audio setting of the General setting.
The audio from camera will heard when back gear is on. The volume control is available but not indicated on the screen due to the safety.
Select “MUTE” button, then mute the audio of the current mode when back gear is on.

Note:
If the reverse cable is connected correctly to the car, the unit goes to camera mode automatically when the car is in reverses.
As an additional safety feature, the audio from camera with built-in microphones can be heard through the NX404.
19. REAR SOURCE OPERATIONS

If a monitor is installed in the rear zone and connected to the rear zone AV output, passengers in the back seat can watch the DVD/iPod Video/AUX1/AUX2 video separately from front source.

Multi-Zone Operation
Independent sources can be played simultaneously on the unit. For example, a FM/AM console can be playback on the front screen while DVD video is available to rear passengers. But now can’t select DVD video in front.

Access Rear-Zone
1. Touch the Rear button on Main Menu to access the Rear Source.
2. Select a source to play.

Exit Rear-Zone
Touch the 2-Zone off button to close the Rear Source.

Note:
1. If the source is selected as the front, the source in rear can’t be selected.
2. If the source is selected as the rear, the source in front can’t be selected.
3. Touch the Front button to access the main menu but not close the Rear Source.

DVD Video in Rear

1 -Option button
2 -Show Cursor keys
3 -Previous Chapter/Fast Backward button
4 -Play/Pause button
5 -Next Chapter/Fast Forward button
6 -Elapsed playing time
7 -Menu List button
8 -Front/Rear button

If the screen displays Rear Source, touch Front/Rear button to switch to Front Source.
If the screen displays Front Source, touch Front/Rear button to switch to Rear Source.

DVD Video Rear Source Control Info Mode.

Touch BACK button to return.

DVD Video Rear Source Control Direct Mode.

NOTE: More detail please refer to DVD Video Front source.
**iPod Video Rear Source ID3 Mode**

**NOTE:**
If the source is selected as the front, the source in rear can’t be selected.
If the source is selected as the rear, the source in front can’t be selected.
Touch the Front button to access the front main menu but the rear source will keep running.

**iPod Video in Rear**

**iPod Video Rear Source Control Play Mode**

1 - Previous Track /Fast Backward button
2 - Play/Pause button
3 - Next Track/Fast Forward button
4 - Progress bar
5 - Menu List button:
Press the Menu button to display the iPod Video Rear Source mode screen.
6 - Repeat button:
Same as iPod function of front source
7 - Front/Rear button
If the screen displays Rear Source, touch to switch to Front Source.
If the screen displays Front Source, touch to switch to Rear Source.
20. SETTING OPERATIONS

Touch [Settings] button on the Main menu screen. The Setting menu screen will be displayed.

General Setup Menu

- **System Language**: Set the Language for system screen.
- **Illumination Color**: Set the illumination color on the panel.
- **Select menu to be able to select from Shortcut menu and drag it to left side area.**

Time: Set system clock.

- **24-Hour Format**: Set the time display mode.
- **Beep**: Turn on or turn off the beep confirmation sound.
- **Bluetooth**: Set the Bluetooth On or Off.
- **Wallpaper**: Choose the desired wallpaper.

- **Input Aux Sense**: AUX input switch, including Low, Middle, High.
- **DivX® Registration**: Display the information about DivX® registration.
- **Tel Speaker**: There are two options, Left and Right. For example, if current setting is Right, when BT phone is coming in, only right speaker can hear the phone.
- **Camera Audio**: There are three options, Off, On and Mute.
- **Version**: Display the software version information.

**Note:**
- Time and 24-Hour Format can be adjusted when set the system time not to be synchronized with GPS local time.

Video Setup Menu
This menu includes: DVD Wide Screen Mode; Dimmer. Dimmer Mode

**DVD Wide Screen Mode**: Set the DVD wide screen mode On or Off.
**Dimmer**: Set Dimmer value from 0 to 20.
**Dimmer Mode**: There are three options, Day, Night and Auto.

### Audio Setup Menu

This menu includes: Balance, Fader, Beat EQ, Sub Woofer Ctrl, Sub Woofer Phase, High Pass Filter, Low Pass Filter, Line Out and Magna Bass EX.

**Balance**: Choose the desired volume for left and right speaker.
**Fader**: Choose the desired volume for front and rear speaker.
**Beat EQ**: Choose the desired mode: Bass Boost, Impact, Excite, Custom and OFF.
**Subwoofer Ctrl**: Choose the desired subwoofer gain from 0 to 14.
**Subwoofer Phase**: Choose the Subwoofer Phase normal or reverse.
**High Pass Filter**: Choose the frequency about the high pass filter or enable. The frequencies include 60Hz, 90Hz and 120Hz.
**Low Pass Filter**: Choose the frequency about the low pass filter or enable. The frequencies include 60Hz, 90Hz and 120Hz.
**Magna Bass EX**: Choose the loudness On or Off.

**Note:**
Optional cable (sold separately) is necessary when you use Audio line out.

### Navigation Setup Menu

This menu includes: GPS Time, Navi Interrupt, Voice Guidance.

**GPS Time**: Set the system time to be synchronized with GPS local time or not.
**Navi Interrupt**: There are three choices: On/Popup/Off. “On”: The navigation screen will cover to AV screen when reaching some key point. “Popup”: When small turn info window will pop up in the top of the AV screen to indicate the key point. “Off”: Turn off this function.
**Voice Guidance**: There are three choose: On/Mute/Off.
On: Interrupt function of voice guidance is on. While interrupting no attenuate function of AV sound.
Mute: Interrupt function of voice guidance is on. While interrupting attenuate function sound is on.
Off: Disable the navigation voice guidance.

### Others Setup Menu

This menu include: Set Password; Parental Control; Audio Language; Subtitle Language; Screen Calibration and Factory Default.

**Set Password**: Set the password for DVD parental control.
**Parental Control**: Set the rating of the age. It contains Kid Safe/G/PG/PG- 13/PG-R/R/NC- 17/Adult.
**Audio Language**: Set the Language for DVD Audio.

**Subtitle Language**: Set the Language for DVD subtitle.

**Blinking LED**: Set blinking LED On or Off.

**Screen Calibrate**: The function of it is to select the TS Calibrate YES or NO.

**Factory Default**: The function is to select to load factory default or not.

## Set the Anti-Theft code

1. If your unit is unlocked, hold the button more than 2 seconds, then the Anti-Theft setting mode will display. Users can change anti-theft code.

   Touch [YES] button, the numerical keypad is displayed. Enter the new password twice, then anti-theft code is set and your unit is secured.

   When the Anti-theft is “On”, you need enter correct Anti-theft code to turn the unit on. If you enter wrong code three times, the unit is locked, and must be unlocked by the professionals.

2. If your unit is secured, hold the button more than 2 seconds, then the Anti-Theft setting mode will display. The numerical keypad is displayed, enter the right code to unlock.

**Note:**

*If the anti-theft code is lost or forgotten, a charge will be incurred at the owner’s expense by a Clarion service station to unlock the NX404.*
# 21. TROUBLESHOOTING

## GENERAL

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

## DVD PLAYER

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc cannot be loaded.</td>
<td>A disc is already loaded.</td>
<td>Eject the disc before loading the new one.</td>
</tr>
<tr>
<td></td>
<td>There is foreign matter already in the disc slot.</td>
<td>Remove the foreign matter, or consult a service station.</td>
</tr>
<tr>
<td>Sound skips or is noisy.</td>
<td>Disc is dirty.</td>
<td>Clean the disc with a soft cloth.</td>
</tr>
<tr>
<td></td>
<td>Disc is heavily scratched or warped.</td>
<td>Replace with a disc in good condition.</td>
</tr>
<tr>
<td>Sound is bad directly after power is turned on.</td>
<td>Condensation may form on the internal lens when the car is parked in a humid place.</td>
<td>Let dry for about 1 hour with the power on.</td>
</tr>
<tr>
<td>Video images are not displayed.</td>
<td>The parking brake is not engaged.</td>
<td>Check that the parking brake is engaged.</td>
</tr>
<tr>
<td>Disc cannot play with the display &quot;PARENTAL VIOLATION&quot; shown.</td>
<td>Feature exceeds set parental level.</td>
<td>Release the view limitation or change the parental level. See the subsection “Setting up the parental level”</td>
</tr>
</tbody>
</table>
### USB DEVICE

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB device cannot be inserted.</td>
<td>The USB device has been inserted with wrong direction.</td>
<td>Reversing the connection direction of the USB device, try it again.</td>
</tr>
<tr>
<td></td>
<td>The USB connector is broken.</td>
<td>Replace with a new USB device.</td>
</tr>
<tr>
<td>USB device is not recognized.</td>
<td>The USB device is damaged.</td>
<td>Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.</td>
</tr>
<tr>
<td></td>
<td>Connectors are loose.</td>
<td></td>
</tr>
<tr>
<td>No sound heard with the display “NO FILE” shown.</td>
<td>No MP3/WMA file is stored in the USB device.</td>
<td>Store these files properly in the USB device.</td>
</tr>
<tr>
<td>Sound skips or is noisy.</td>
<td>MP3/WMA files are not encoded properly.</td>
<td>Use MP3/WMA files encoded properly.</td>
</tr>
<tr>
<td>The video image of iPod/iPhone is disturbed.</td>
<td>The TV Signal setting of the iPod/iPhone is not set correctly.</td>
<td>Set the TV Signal setting (NTSC/PAL) of the iPod/iPhone correctly.</td>
</tr>
</tbody>
</table>

### Bluetooth

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot pair the Bluetooth enable device with the car audio system.</td>
<td>The device does not support the profiles required for the system.</td>
<td>Use another device to connect.</td>
</tr>
<tr>
<td></td>
<td>The Bluetooth function of the device is not enabled.</td>
<td>Refer to the user manual of the device for how to enable the function.</td>
</tr>
<tr>
<td>The audio quality is poor after connection with a Bluetooth enabled device.</td>
<td>The Bluetooth reception is poor.</td>
<td>Move the device closer to the car audio system or remove any obstacle between the device and the system.</td>
</tr>
</tbody>
</table>
## TFT screen

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The image is not displayed.</td>
<td>The parking brake is not engaged.</td>
<td>Check that the parking brake is engaged.</td>
</tr>
<tr>
<td>The display is dark.</td>
<td>The Dimmer control is too low.</td>
<td>Adjust the Dimmer properly.</td>
</tr>
<tr>
<td></td>
<td>The operating condition is not good.</td>
<td>The temperature inside the vehicle may be 0°C or lower. Set to an appropriate temperature (25°C or so) and check it again.</td>
</tr>
<tr>
<td></td>
<td>The headlight of the vehicle is lit</td>
<td>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).</td>
</tr>
<tr>
<td>There are red, green, and blue points in display.</td>
<td>-------------------------------</td>
<td>This is not a failure, but a phenomenon peculiar to a liquid crystal panel (The liquid crystal panel is produced according to technology with very high precision. Note that, though there are effective pixels of 99.99% or more, pixel missing or normally lit pixels account for 0.01%).</td>
</tr>
</tbody>
</table>
22. ERROR DISPLAY

If an error occurs, one of the following displays is displayed. Take the measures described below to solve the problem.

**DVD PLAYER**

<table>
<thead>
<tr>
<th>Display</th>
<th>Cause</th>
<th>Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAD DISC</td>
<td>A disc is caught inside the DVD deck and is not ejected.</td>
<td>This is a failure of DVD deck’s mechanism and consult your store of purchase.</td>
</tr>
<tr>
<td>BAD DISC</td>
<td>A disc cannot be played due to scratches, etc.</td>
<td>Replace with a non-scratched, non-warped disc.</td>
</tr>
<tr>
<td>BAD DISC</td>
<td>A disc is loaded upside-down inside the DVD deck and does not play.</td>
<td>Eject the disc then reload it properly.</td>
</tr>
<tr>
<td>PARENTAL VIOLATION</td>
<td>Parental level error</td>
<td>Set the correct Parental level.</td>
</tr>
<tr>
<td>Disc Region incorrect</td>
<td>Region code error</td>
<td>Eject the disc, and replace correct region code disc.</td>
</tr>
</tbody>
</table>
23. SPECIFICATIONS

FM Tuner
Frequency Range: 87.9 MHz to 107.9 MHz
Usable Sensitivity: 8 dBµV
Stereo Separation: 25 dB (1 kHz)
Frequency Response: 30 Hz to 14 kHz

AM Tuner
Frequency Range: 530 kHz to 1,710 kHz
Usable Sensitivity: 30 dBµV

DVD Player System
Digital Versatile Disc System with CDDA capable
Usable discs:
DVD video disc, Compact disc
Frequency Response: 20 Hz to 20 kHz
Signal/Noise Ratio: 93 dBa (1 W Ref)
Distortion: 0.05%
Video system: NTSC/PAL

Audio/Video Input
Audio input voltage: ≤ 2 V_{rms}
Video input voltage: 1.0 V_{p-p} @ 75Ω
Audio input sensitivity (at 2 V output)
High: 325 mV_{rms}
Mid: 650 mV_{rms}
Low: 1.3 V_{rms}

Audio/Video output
Video output voltage: 1.0 V_{p-p} @ 75Ω
Screen Size: 6.2” wide type
Pixels: 1,152,000
Resolution: 800 x 480 x 3 (RGB)

Bluetooth
Specification: Bluetooth Ver 2.1+EDR
Profile: HFP1.5 (Hands Free Profile)
        HSP1.0 (Headset Profile)

A2DP (Advanced Audio Distribution Profile)
AVRCP1.2,1.3,1.4 (AV Remote Control Profile)
PBAP (Phone Book Access Profile)
SPP (Serial Port Profile)

Power Class: 2

USB
Specification: USB 1.1/2.0 (FS)
Playable Audio format:
        MP3, WMA, AAC, FLAC
Playable Video format:
        AVI, MP4, MPG/MPEG, 3gp

General
Power source voltage:
14.4 VDC (10.8 to 15.6 V allowable)
Ground: Negative
Current consumption: 4.0 A @ 1 W
Auto Antenna Rated Current: 500 mA less

Note:
• Specifications and design are subject to change without notice for further improvement.

Power Output:
18W RMS x 4 Channels at 4Ω
and ≤1% THD+N

Signal to Noise Ratio:
82 dBA (reference 1 W into 4Ω)
NX404 dimensions:

NX404 weight: 2.3 kg
24. WIRE CONNECTION GUIDE

Note:
• Before installing, be sure to disconnect the negative cable of the car battery.
• In the optional devices, the RCA cables and the Connector cables are separately-sold items.
• When connect the HDMI cable, be sure to fix with the HDMI cable holder and Machine screw (M2 x 4).

NX404
Note:

*1: Connecting the PHONE INTERRUPT terminal

The phone interrupt will mute the audio if the lead receives a negative or ground signal.
1 Warnings and Safety information

The navigation system helps you find your way to your destination with the built-in GPS receiver. Clarion Mobile Map does not transmit your GPS position; others cannot track you.

If you accept it when first using the application, Clarion Mobile Map collects usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. The data is processed anonymously; no one will be able to track any personal information. If you change your mind later, you can enable or disable the log collection in Settings (page 100).

It is important that you look at the display only when it is safe to do so. If you are the driver of the vehicle, we recommend that you operate Clarion Mobile Map before you start your journey. Plan the route before your departure and stop if you need to change the route.

You must obey the traffic signs and follow the road geometry. If you deviate from the recommended route, Clarion Mobile Map changes the instructions accordingly.

Never place Clarion NX404 where it obstructs the driver's view, where it is in the deployment zone of an airbag or where it might cause injuries in an accident.

For more information, consult the End User License Agreement (page 103).
2 Getting started

Clarion Mobile Map is optimized for in-car use. You can use it easily by tapping the screen buttons and the map with your fingertips.

When using the navigation software for the first time, an initial setup process starts automatically. Do as follows:

1. Select the written language of the application interface. Later you can change it in Regional settings (page 99).

2. Read the End User License Agreement. Tap to continue.

3. You are now asked whether you allow the software to collect usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. Tap to allow the anonymous statistics or disable this function. Later you can turn them on or off individually in Log collection settings (page 100).


5. Select the language and speaker used for voice guidance messages. Later you can change it in Sound and Warnings settings (page 99).
6. If needed, modify the time format and unit settings. Later you can change them in Regional settings (page 99).

7. If needed, modify the default route planning options. Later you can change them in Route settings (page 93).

8. The initial setup is now complete. The Configuration wizard can be restarted later from the Settings menu (page 89).

After the initial setup, the Navigation menu appears and you can start using Clarion Mobile Map.

2.1 Navigation menu
You can reach all parts of Clarion Mobile Map from the Navigation menu.

You have the following options:

- Tap to select your destination by entering an address or selecting a place of interest, a location on the map or one of your Favorite destinations. You can also look up your recent destinations from the Smart History or enter a coordinate.

- Tap to display the route parameters and the route in its full length on the map. You can also perform route-related actions such as editing or canceling your route, setting a start point for the route, picking route alternatives, avoiding parts of the route, simulating navigation or adding the destination to your Favorites.
• Tap to simulate demo routes or to run some additional applications.

• Tap to start navigating on the map. The button itself is a miniature live map that shows your current position, the recommended route and the surrounding map area. Tap the button to enlarge the map to the full screen.

2.2 Buttons and other controls on the screen

When you are using Clarion Mobile Map, you usually tap buttons on the touch screen. You only need to confirm selections or changes if the application needs to restart, it needs to perform a major reconfiguration, or you are about to lose some of your data or settings. Otherwise, Clarion Mobile Map saves your selections and applies the new settings without confirmation as soon as you use the controls.

<table>
<thead>
<tr>
<th>Type</th>
<th>Example</th>
<th>Description</th>
<th>How to use it</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button</td>
<td><img src="Image" alt="Find" /></td>
<td>Tap it to initiate a function, to open a new screen, or to set a parameter.</td>
<td>Tap it once.</td>
</tr>
<tr>
<td>Button with value</td>
<td><img src="Image" alt="Viewpoint" /></td>
<td>Some buttons display the current value of a field or setting. Tap the button to change the value. After the change, the new value is shown on the button.</td>
<td>Tap it once.</td>
</tr>
<tr>
<td>Icon</td>
<td><img src="Image" alt="Distance" /></td>
<td>Shows status information.</td>
<td>Some icons also function as a button. Tap them once.</td>
</tr>
<tr>
<td>List</td>
<td><img src="Image" alt="List" /></td>
<td>Shows status information.</td>
<td>Some icons also function as a button. Tap them once.</td>
</tr>
<tr>
<td>Radio button</td>
<td><img src="Image" alt="Radio button" /></td>
<td>Shows status information.</td>
<td>Some icons also function as a button. Tap them once.</td>
</tr>
</tbody>
</table>
When there are only two choices, a checkmark shows whether the feature is enabled. Tap it to turn the switch on or off.

When a feature can be set to different values in a range, Clarion Mobile Map shows an indicator on a gauge that displays and sets the value.

- Drag the handle to move the slider to its new position.
- Tap the slider where you want the handle to appear; the thumb jumps there.

Alphabetic and alphanumeric keyboards to enter text and numbers. Each key is a touch screen button.

2.2.1 Using keyboards

You only need to enter letters or numbers when you cannot avoid it. You can type with your fingertips on the full-screen keyboards and you can switch between various keyboard layouts, for example English, Greek or numerical.

<table>
<thead>
<tr>
<th>Task</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switching to another keyboard layout, for example from an English keyboard to a Greek keyboard</td>
<td>Tap the button and select the new keyboard layout from the list.</td>
</tr>
<tr>
<td>Correcting your entry on the keyboard</td>
<td>Tap the to remove the unneeded character(s). Tap and hold the button to delete several characters or the entire input string.</td>
</tr>
<tr>
<td>Entering a space, for example between a first name and a family name or in multi-word street names</td>
<td>Tap the button at the bottom center of the screen.</td>
</tr>
<tr>
<td>Entering upper and lower case letters</td>
<td>When entering a text, the first character appears in upper case while the rest of the text is in lower case. Tap to enter an upper case letter or tap twice to turn on Caps Lock. Tap again and lower case letters return.</td>
</tr>
</tbody>
</table>
### Entering numbers and symbols

- **Tap** 123 to switch to a keyboard offering numeric and symbol characters.

### Finalizing the keyboard entry (accepting the suggested search result)

- **Tap**.

### Finalizing the keyboard entry (opening the list of search results)

- **Tap**.

### Finalizing the keyboard entry (saving your input)

- **Tap**.

### Canceling the keyboard entry (returning to the previous screen)

- **Tap**.

### 2.2.2 Beyond single screen tap

You usually need to tap the screen only once. However, some useful features can be accessed with combined touch screen tapping. Those are the following:

<table>
<thead>
<tr>
<th>Action</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tapping and holding the screen</td>
<td>Tap and keep pressing the following buttons to reach extra functions:</td>
</tr>
<tr>
<td></td>
<td>- Tap and hold <strong>Back</strong> on list and menu screens: the Map screen appears.</td>
</tr>
<tr>
<td></td>
<td>- Tap and hold any of the <strong>Left</strong>, <strong>Right</strong>, <strong>Up</strong>, <strong>Down</strong>, <strong>Zoom</strong>, and <strong>Zoom out</strong> buttons on the Map screen: you can rotate, tilt or scale the map continuously.</td>
</tr>
<tr>
<td></td>
<td>- Tap and hold <strong>Delete</strong> on keyboard screens: you can delete several characters quickly.</td>
</tr>
<tr>
<td></td>
<td>- Tap and hold <strong>Up</strong> or <strong>Down</strong> in long lists: you can scroll pages continuously.</td>
</tr>
</tbody>
</table>
Gestures (drag&drop)

You need to drag and drop the screen only in cases like:

- Moving the handle on a slider.
-Scrolling the list: grab the list anywhere and slide your finger up or down. Depending on the speed of the sliding, the list will scroll fast or slow, only a bit or till the end.
- Moving the map in map browsing mode: grab the map, and move it in the desired direction.

2.3 Map screen

2.3.1 Navigating on the map

The Map screen is the most frequently used screen of Clarion Mobile Map.

A small live map is displayed on the Navigation menu, as a part of the button.

To enlarge this small map and open the Map screen, tap Show Map.

This map shows the current position (the Vehimarker, a blue arrow by default), the recommended route (an orange line), and the surrounding map area.

When there is no GPS position, the Vehimarker is transparent. It shows your last known position.

You see colored dots circling around a satellite symbol in the top left corner. The more green dots you see, the closer you are to get the valid GPS position.
When GPS position is available, the Vehimarker is displayed in full color, now showing your current position.

There are screen buttons and data fields on the screen to help you navigate. During navigation, the screen shows route information.

The button gives quick access to frequently used functions. You can change the available functions in Settings.

By default, only one data field is displayed in the bottom right corner. Tap this field to see all route data fields. Tap any of the data fields to suppress others and display only the selected one.

The data fields are different when you are navigating an active route and when you have no specified destination (the orange line is not displayed).

Default data fields when cruising without a destination (tap and hold any of the fields to change its value):

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed 61 mph</td>
<td>Shows your current speed given by the GPS receiver.</td>
</tr>
<tr>
<td>Speed Limit 70 mph</td>
<td>Shows the speed limit of the current road if the map contains it.</td>
</tr>
<tr>
<td>Time 17:11</td>
<td>Shows the current time corrected with time zone offset. The accurate time comes from the GPS satellites, and the time zone information comes from the map or it can be set manually in Regional settings. (The current time is always displayed in the top left corner of menu screens.)</td>
</tr>
</tbody>
</table>
Default data fields when navigating a route (tap and hold any of the fields to change its value):

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Distance</strong></td>
<td>Shows the distance you need to travel on the route before reaching your final destination.</td>
</tr>
<tr>
<td>16.9 mi</td>
<td></td>
</tr>
<tr>
<td><strong>Time Left</strong></td>
<td>Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.</td>
</tr>
<tr>
<td>0:16</td>
<td></td>
</tr>
<tr>
<td><strong>Arrival Time</strong></td>
<td>Shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.</td>
</tr>
<tr>
<td>17:22</td>
<td></td>
</tr>
</tbody>
</table>

### 2.3.2 Position markers

#### 2.3.2.1 Vehimarker and Lock-on-Road

When your GPS position is available, Clarion Mobile Map marks your current position with the Vehimarker. By default, this marker is a blue arrow, but you can change this icon in Settings.

When on-road navigation is selected, the Vehimarker may not show your exact GPS position and heading. If roads are near, it is aligned to the nearest road to suppress GPS position errors, and the direction of the icon is aligned to the direction of the road.

If you select off-road navigation: The Vehimarker is at your exact GPS position. The direction of the icon shows your current heading.

#### 2.3.2.2 Selected map location (Cursor) and selected map object

You can mark a map location in the following ways:

- Tap the map when navigating,
- Tap the map when you are asked to confirm the destination at the end of a search, or
- Tap the map in Find on Map (page 62)

When a map location is selected, the Cursor appears at the selected point on the map. The Cursor is displayed with a radiating red dot (👨‍💻) to make it visible at all zoom levels.

The location of the Cursor can be used as the destination of the route, a new alert point, you can search for Places around it, or you can save this location as one of your Favorite destinations.

You can also select some of the objects on the map. If you tap the map at the icon of a Place of Interest or an alert point, the object will be selected (you see a red circling border around the object), and you can get information about this object or use it as a route point.
2.3.3 Objects on the map

2.3.3.1 Streets and roads
Clarion Mobile Map shows the streets in a way that is similar to how the paper road maps show them. Their width and colors correspond to their importance: you can easily tell a freeway from a small street.

2.3.3.2 Turn preview and Next street
When navigating a route, the top section of the Map screen shows information about the next route event (maneuver) and the next street or the next city/town.

![Map Screen](image)

There is a field in the top left corner that displays the next maneuver. Both the type of the event (turn, traffic circle, exiting freeway, etc.) and its distance from the current position are displayed.

A smaller icon shows the type of the second next maneuver if it is near the first one. Otherwise, only the next maneuver is displayed.

![Map Screen](image)

Most of these icons are very intuitive. The following table lists some of the frequently shown route events. The same symbols are used in both fields:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Turn left" /></td>
<td>Turn left.</td>
</tr>
<tr>
<td><img src="image" alt="Turn right" /></td>
<td>Turn right.</td>
</tr>
<tr>
<td><img src="image" alt="Turn back" /></td>
<td>Turn back.</td>
</tr>
<tr>
<td><img src="image" alt="Bear right" /></td>
<td>Bear right.</td>
</tr>
<tr>
<td><img src="image" alt="Turn sharp left" /></td>
<td>Turn sharp left.</td>
</tr>
</tbody>
</table>
Keep left.

Continue straight in the intersection.

Go left on the traffic circle, 3rd exit (next maneuver).

Enter traffic circle (second next maneuver).

Enter freeway.

Exit freeway.

Board ferry.

Leave ferry.

Approaching a waypoint.

Approaching the destination.

### 2.3.3.3 Lane information and Signposts

When navigating on multilane roads, it is important to take the appropriate lane in order to follow the recommended route. If lane information is available in the map data, Clarion Mobile Map displays the lanes and their directions using small arrows at the bottom of the map. Highlighted arrows represent the lanes and direction you need to take.

Where additional information is available, signposts substitute arrows. Signposts are displayed at the top of the map. The color and style of the signposts are similar to the real ones you can see above road or by the roadside. They show the available destinations and the number of the road the lane leads to.

All signposts look similar when cruising (when there is no recommended route). When navigating a route, only the signpost that points to the lane(s) to be taken is displayed in vivid colors; all others are darker.

If you want to hide the currently displayed signposts, tap any of them and the normal Map screen returns until new signpost information is received.
2.3.3.4 Junction view

If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows. At the top of the screen road signs show you additional information.

If you want to hide the currently displayed junction, tap the picture and the Map screen returns.

2.3.3.5 Freeway exit services

You may need a gas station or a restaurant during your journey. This feature displays a new button on the map when you are driving on freeways.

Tap this button to open a panel with the details of the next few exits or service stations.

Tap any of them to display the exit area on the map. You can now easily add this exit as a waypoint to your route if needed.

If you want to display other types of Places for the exits, you can change the icons in Visual Guidance settings (page 97).
2.3.3.6 3D object types

Clarion Mobile Map supports the following 3D object types:

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D terrain</td>
<td>3D terrain map data shows changes in terrain, elevations or depressions in the land when you view the map in 2D, and use it to plot the route map in 3D when you navigate. Hills and mountains are shown in the background of the 3D map, and illustrated by color and shading on the 2D map.</td>
</tr>
<tr>
<td>Elevated roads</td>
<td>Complex intersections and vertically isolated roads (such as overpasses or bridges) are displayed in 3D.</td>
</tr>
<tr>
<td>3D landmarks</td>
<td>Landmarks are 3D artistic or block representations of prominent or well-known objects.</td>
</tr>
<tr>
<td>3D buildings</td>
<td>3D block representation of full city building data containing actual building size and position on the map.</td>
</tr>
</tbody>
</table>

2.3.3.7 Elements of the active route

Clarion Mobile Map shows the route in the following way:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![image]</td>
<td>Current GPS position and Start point</td>
<td>Your current position displayed on the map. If roads are near, it is aligned to the nearest road. Normally if GPS position is available, the route starts from the current position. If there is no valid GPS position, Clarion Mobile Map uses the last known position as the start point.</td>
</tr>
<tr>
<td>![image]</td>
<td>Waypoint (intermediate destination)</td>
<td>An intermediate destination of the route before reaching the final destination.</td>
</tr>
<tr>
<td>![image]</td>
<td>Destination (end point)</td>
<td>The final destination of the route.</td>
</tr>
<tr>
<td>![image]</td>
<td>Route color</td>
<td>The route always stands out with its color on the map, both in daytime and in night color mode.</td>
</tr>
<tr>
<td>![image]</td>
<td>Streets and roads that are excluded from the navigation</td>
<td>You can choose whether you want to use or avoid certain road types (page 93). However, when Clarion Mobile Map cannot avoid such roads, the route will include them and it will show them in a color that is different from the route color.</td>
</tr>
</tbody>
</table>
### 2.3.4 Manipulating the map

Tap the map anywhere to browse it during navigation. The map stops following the current position (the Vehimarker, a blue arrow by default, is not locked in a fix position on the screen any more) and control buttons appear to help you modify the map view.

<table>
<thead>
<tr>
<th>Action</th>
<th>Button(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moving the map with drag&amp;drop</td>
<td>No buttons</td>
<td>You can move the map in any direction: tap and hold the map, and move your finger towards the direction you want to move the map.</td>
</tr>
<tr>
<td>Zooming in and out</td>
<td>+, −</td>
<td>Changes how much of the map is displayed on the screen. Clarion Mobile Map uses high-quality vector maps that let you examine the map at various zoom levels, always with optimized content. It always displays street names and other text with the same font size, never upside-down, and you only see the streets and objects that you need. Map scaling has a limit in 3D map view mode. If you zoom out further, the map switches to 2D view mode. Tap the button once to modify the view in large steps, or tap and hold the button to modify it continuously and smoothly.</td>
</tr>
<tr>
<td>Tilting up and down</td>
<td>↑, ↓</td>
<td>Changes the vertical view angle of the map in 3D mode. Tap the button once to modify the view in large steps, or tap and hold the button to modify it continuously and smoothly.</td>
</tr>
<tr>
<td>Rotating left and right</td>
<td>←, →</td>
<td>Changes the horizontal view angle of the map. Tap the button once to modify the view in large steps, or tap and hold the button to modify it continuously and smoothly.</td>
</tr>
<tr>
<td>2D or 3D view</td>
<td></td>
<td>Tap this button to switch between the 3D perspective and 2D top-down map view modes.</td>
</tr>
<tr>
<td>Compass in 2D map view mode</td>
<td></td>
<td>The direction of the compass shows North. Tap the button to switch to North-up view, and then tap again to rotate the map in the previous direction.</td>
</tr>
<tr>
<td>Compass in 3D map view mode</td>
<td></td>
<td>The direction of the compass shows North. Tap the button to switch to North-up view, and then tap again to rotate the map in the previous direction.</td>
</tr>
</tbody>
</table>
### 2.3.5 Quick menu

The Quick menu is a selection of controls and functions that are frequently needed during navigation. It can be opened directly from the Map screen by tapping ![Quick menu icon](image).

The menu will close after a few seconds of inactivity or if you tap ![Close menu icon](image).

Most of these functions are shortcuts. They are accessible from the menu system. There are more functions available than the number of buttons in the menu. In Settings, you can choose the function of each button (page 93). The following options are available:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
<th>Shortcut for</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Combined Search" /></td>
<td>This button opens the Combined Search function that allows you to search addresses, Places, Favorite and recent destinations by name in one unified environment.</td>
<td>Destination (page 25)</td>
</tr>
<tr>
<td><img src="image" alt="Quick Place Search" /></td>
<td>This function lets you search for a Place by its name. The search is carried out either along your route or around your current location if there is no route calculated.</td>
<td>Destination / Find Places / Quick Search (page 49)</td>
</tr>
<tr>
<td>Image</td>
<td>Description</td>
<td>Reference</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td><img src="#" alt="Favorite" /></td>
<td>This button opens the list of your Favorite destinations.</td>
<td>Find / Favorite (page 62)</td>
</tr>
<tr>
<td><img src="#" alt="History" /></td>
<td>This button opens the History list. You can select one of your previous destinations.</td>
<td>Find / History (page 65)</td>
</tr>
<tr>
<td><img src="#" alt="Edit Route" /></td>
<td>This button opens the route editing function.</td>
<td>My Route / Edit Route</td>
</tr>
<tr>
<td><img src="#" alt="Route Settings" /></td>
<td>This button opens the route related settings.</td>
<td>More / Settings / Route Settings (page 93)</td>
</tr>
<tr>
<td><img src="#" alt="Map Settings" /></td>
<td>This button opens the map related settings.</td>
<td>More / Settings / Map Settings (page 96)</td>
</tr>
<tr>
<td><img src="#" alt="Where Am I?" /></td>
<td>This button opens a special screen with information about the current position and a button to search for nearby emergency or roadside assistance. For details, see the next chapter.</td>
<td>Tap the Current Street field on the Map screen</td>
</tr>
<tr>
<td><img src="#" alt="Cancel Route" /></td>
<td>This button cancels the route and stops navigation. The button is replaced with the next one if waypoints are given.</td>
<td>My Route / Cancel Route (page 73)</td>
</tr>
<tr>
<td><img src="#" alt="Next Waypoint" /></td>
<td>This button skips the next waypoint from the route.</td>
<td>n/a</td>
</tr>
<tr>
<td><img src="#" alt="Overview" /></td>
<td>This button opens a 2D map scaled and positioned to show the entire route.</td>
<td>My Route / Overview (page 68)</td>
</tr>
<tr>
<td><img src="#" alt="Visual Guidance" /></td>
<td>This button opens the Visual Guidance settings screen.</td>
<td>More / Settings / Visual Guidance (page 97)</td>
</tr>
<tr>
<td><img src="#" alt="Avoid" /></td>
<td>This button lets you bypass parts of the recommended route.</td>
<td>My Route / Avoidances</td>
</tr>
<tr>
<td><img src="#" alt="Trip Monitor" /></td>
<td>This button opens the Trip Monitor screen where you can manage your previously saved trip logs and track logs.</td>
<td>More / Trip Monitor (page 88)</td>
</tr>
<tr>
<td>Button</td>
<td>Description</td>
<td>Action</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Itinerary</td>
<td>This button opens the list of maneuvers (the itinerary).</td>
<td>Tap the top of the Map screen during navigation.</td>
</tr>
<tr>
<td>Save Route</td>
<td>With this function you can save the active route for later use.</td>
<td>My Route / More / Save Route</td>
</tr>
<tr>
<td>Load Route</td>
<td>With this function you can replace the active route with a previously saved route.</td>
<td>My Route / More / Load Route</td>
</tr>
<tr>
<td>Find Places</td>
<td>With this function you can search for Places of Interest in various different ways.</td>
<td>Find / Find Places (page 49)</td>
</tr>
<tr>
<td>Simulate Navigation</td>
<td>This button opens the Map screen and starts simulating the active route.</td>
<td>My Route / More / Simulate Navigation (page 80)</td>
</tr>
<tr>
<td>GPS Info</td>
<td>This button opens the GPS Information screen with satellite position and signal strength information.</td>
<td>Tap the top of the Map screen when there is no GPS reception</td>
</tr>
<tr>
<td>Home</td>
<td>This button offers your Home location as a destination.</td>
<td></td>
</tr>
<tr>
<td>Vehicle Profile</td>
<td>This button opens the parameters of the selected Vehicle profile.</td>
<td>More / Settings / Route (page 93)</td>
</tr>
</tbody>
</table>
2.3.6 Checking the details of the current position (Where Am I?)

This screen contains information about the current position (or about the last known position if GPS reception is not available) and a button to search for useful Places nearby.

You can access this screen from the map in one of the following ways:

- If the current street is displayed below the Vehimarker (the current position on the map), tap it to open the Where Am I? screen.

- Open the Quick menu and tap the button.

Information on this screen:

- Latitude and Longitude (coordinate of the current position in WGS84 format).
- Altitude (elevation information coming from the GPS receiver - often inaccurate).
- House number on the left.
- House number on the right.
- In the middle of the screen you can see whether the position is current, or the time left since it was last updated.
- Address details (when available) of the current position are displayed at the bottom.

You can also perform some actions on this screen:

Tap to save the current position as a Favorite destination.
You can also search for assistance near your current position. Tap to open a new screen for the Quick search:

The following services can be searched around the current position or the last known position:

- Car Repair Around Here: Car repair and roadside assistance services
- Police Around Here: Police stations
- Health Around Here: Medical and emergency services
- Gas Station Around Here: Gas stations

Tap any of the buttons, select a Place from the list, and navigate to it.
3 On-road navigation

When first started, Clarion Mobile Map calculates routes using the road network of the high quality vector maps provided with the product.

You can set up your route in different ways:

- If you need a route for immediate navigation, you can select the destination and start navigating to it right away (normal navigation).
- You can also plan a route independently of your current GPS position or even without GPS reception. To achieve this you need to set a new starting point in My Route / Edit Route by tapping the flag icon at the current position. This will also turn off the GPS receiver so that the route is not recalculated when a new position is received.

You can plan routes with multiple destinations. Select the first destination. Then select a second destination and add it to your route to create a multi-point route. You can add as many destinations to your route as you like.

You can also use Clarion Mobile Map for off-road navigation. For details, see page 82.

3.1 Selecting the destination of a route

Clarion Mobile Map offers you several ways of choosing your destination:

- Enter a full address or a part of an address, for example a street name without a house number or the names of two intersecting streets (page 34).
- Enter an address with ZIP code (page Error! Bookmark not defined.). This way you do not need to select the name of the city/town and the search for street names might be faster as well.
- Use a built-in Place of Interest as your destination (page 49).
- Select a location on the map with the Find on Map feature (page 62).
- Use a previously saved Favorite destination (page 62).
- Select a location from the History of previously used destinations (page 65).
- Enter the coordinate of the destination (page 66).

3.1.1 Combined Search

There are several ways to select the destination of the route. You can find buttons in the Destination menu that initiate a separate search for addresses, Places, Favorite or recent destinations. The fastest way to search for any of these is to use the Combined Search. In this section you can find the full description of how this feature works. The below process shows how to carry out the search and the following subsections will help you find specific kinds of results.

1. In the Navigation menu, tap  
2. Tap  and the Combined Search screen appears.
3. First you see hints on the screen showing how you can use the function. These hints are only displayed the first time you use this screen.

4. Tap anywhere and the hints disappear. Once you get through this screen to the search results, the hint will not appear again when you open this window later but you can see them again if you tap the information button on the right side of the input field.

5. You can see the input field at the top of the screen. Right below that you see the search area, the city/town around which the search is carried out. The default search area is the area where you are located. For a local search, skip the next step.

6. (optional) To search in a different area, do as follows:

   1. Tap  A new screen opens with a new input field. A hint bubble explains how you can specify the new search center.

   2. Tap anywhere and the hint disappears. If you successfully select a new search area, the hint will not appear again when you open this window later but you can see it again if you tap the information button on the right side of the input field.

   3. Start entering the center of the new search area using the screen keyboard. You only need to enter a few letters to get a result. If the new search area is in a different country or state, you can narrow the search results if you enter one space and then a few letters of the country or state of the search area.

   4. The most likely result appears below the input field as you enter new letters. Tap to select this as your new search area. If you cannot see your preferred area after a few letters, tap and select one from the list.
7. With the proper search area displayed, you can start entering the name, address or category of the destination you are looking for. The number shown in the Results button shows how many results match the entered text. The background search is carried out while you enter letters so this number may keep on increasing if you wait a few seconds. Keep on entering new letters while this number is high.

8. Once the number of results is acceptable after a few seconds of searching, you can tap to switch to the result screen.

9. The result screen also opens with hints. Tap anywhere to suppress them. Once you select a destination, they will not appear again.

10. You see all results in the list, regardless of their type. Addresses, Places, Place categories, Favorite and recent destinations are mixed within one list.

11. You have the following options:
   - Tap the result you want to use as your destination. Scroll the list if necessary.
   - To narrow the search for only one type of result (for example for Places only) you can tap the related button at the top of the screen. See the next sections for details.

12. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.
13. After a short summary of the route parameters, the map appears showing the entire route. The
route is automatically calculated. Tap \( \Rightarrow \) Go to modify route parameters, or tap
and start your journey.

Tip! If you know that you will use this destination frequently, before tapping \( \Rightarrow \) to confirm the destination, put it on the list of your Favorites first: tap \( \Rightarrow \) Add to Favorites, then
give a name for the new Favorite, and tap \( \Rightarrow \) Done to save the location. The map with the destination returns automatically. Now you can start your journey.

3.1.1.1 Combined Search - Navigating to a recent destination (History)
To find one of your recent destinations in Combined Search, carry out the search as described earlier. For the input text you can use either a part of the name or a part of the address of the recent destination. When you get to the result screen, do as follows:

1. Tap \( \Rightarrow \) at the top of the screen.
2. The list is now filtered. What you see is the list of recent destinations with a matching name or address.
3. Scroll down the list if necessary and then select one of the destinations from the list.
4. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap \( \Rightarrow \) Next to confirm the destination, or tap \( \Rightarrow \) Back to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

Note! The alternative way to search for a recent destination is to tap the button in the Quick menu or in the Destination menu. The rest of the procedure is similar to the above.

3.1.1.2 Combined Search - Navigating to a Favorite destination

To find one of your Favorite destinations in Combined Search, carry out the search as described earlier. When you get to the result screen, do as follows:

1. Tap at the top of the screen.
2. The list is now filtered. What you see is the list of your Favorite destinations with a matching name.
3. Scroll down the list if necessary and then select one of the destinations from the list.
4. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

Note! The alternative way to search for a Favorite destination is to tap the button in the Quick menu or in the Destination menu. The rest of the procedure is similar to the above.

3.1.1.3 Combined Search - Navigating to an address
To find an address in Combined Search, carry out the search as described earlier. Use the name of the street alone or combined with the house number as your input text. When you get to the result screen, do as follows:

1. Tap at the top of the screen.
2. The list is now filtered. What you see is the list of matching addresses.
3. Scroll down the list if necessary and then select one of the addresses from the list.
4. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor appears at the new location. Tap to confirm the destination, or tap to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

Note! The alternative way to search for an address is to tap the button in the Destination menu. Unlike the Combined Search, this alternative search method is a structured one where you can define the parts of the address separately.

3.1.1.4 Combined Search - Navigating to an intersection

To find an intersection in Combined Search, carry out the search as described earlier but use the ‘&’ sign to separate the two intersecting streets. You do not need to use spaces before and after the separator character. For example you can use any of the following input texts to find the intersections of Collins Street and Douglas Avenue (the more precise the input string the fewer false results are expected):

- Collins St & Douglas Ave
- Collins & Douglas
- Coll St & Dou Av
- Col&Doug
- C&D
- Collins St& (this one will give you all the intersections of Collins Street so that you can select the appropriate one from the result list)

When you get to the result screen, do as follows:

1. Tap at the top of the screen.
2. The list is now filtered. What you see is the list of matching intersections.
3. Scroll down the list if necessary and then select one intersection from the list.
4. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor (Cursor) appears at
the new location. Tap to confirm the destination, or tap to select a different destination.

5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

Note! The alternative way to search for an address is to tap the button in the Destination menu. Unlike the Combined Search, this alternative search method is a structured one where you can define the parts of the address separately.

3.1.1.5 Combined Search - Navigating to a Place of Interest

To find a Place of Interest in Combined Search, carry out the search as described earlier. Search for a part of its name. When you get to the result screen, do as follows:

1. Tap at the top of the screen.
2. The list is now filtered. What you see is the list of matching Places ordered by their distance from your current location.
3. Scroll down the list if necessary and then select one of the Places from the list.
4. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

![Map and route planning interface](image)

Note! The alternative way to search for a Place is to tap the button in the Quick menu or the button in the Destination menu. These alternatives are different from the Combined Search. The first one is also a name search but if there is a route planned, it will not be carried out around your current location but along the route. The Place search in the Destination menu is a complex Place search with several options including category search or search around the destination of the current route.

3.1.1.6 Combined Search - Navigating to a Place of Interest by its category

To find a Place of Interest in Combined Search by giving its category only, carry out the search as described earlier. Search for a part of the category name. When you get to the result screen, do as follows:

1. The list is ordered with Place categories at the beginning but if you want, you can filter the list to contain Place categories only. Tap at the top of the screen to filter the list.

2. Scroll the list and select one of the categories. You get the list of Places in that category ordered by their distance from your current position. If the selected category contains subcategories, you will see all Places in that category mixed into one list.

3. Scroll down the list if necessary and then select one of the Places from the list.

4. Once the destination is selected, a full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor appears at the new location. Tap to confirm the destination, or tap to select a different destination.
5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap \( \text{More} \) to modify route parameters, or tap \( \text{Go} \) and start your journey.

Note! The alternative way to search for a Place category is to tap the \( \text{Combined Search} \) button in the Destination menu and then tap \( \text{Search} \). This alternative is different from the Combined Search. When you search for a Place category here, you will go through the whole Place category tree. When you select a category, the list of its subcategories opens.

3.1.2 Entering an address or a part of the address
If you know at least a part of the address, it is the quickest way to select the destination of the route. Using the same screen, you can find an address by entering:

- the exact address, including house number
- the center of a city/town
- an intersection
- the midpoint of a street
- any of the above, starting the search with the ZIP code (page Error! Bookmark not defined.)
3.1.2.1 Entering an address (United States)

To enter an address as the destination, do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. By default, Clarion Mobile Map proposes the country and state where you are. If needed, tap , enter the first few letters of the destination country or state on the keyboard, and select one from the list. If you select a country without a state, you can search for a city/town in all its states.

4. Select a new city/town:
   a. Tap . The city/town of your current location is offered by default. For a local search, tap to accept it, otherwise continue with entering the destination city/town name.
   b. Start entering the name of the city/town on the keyboard.
   c. Find the city/town you need:
      • The most likely city/town name is always shown in the input field. To accept it, tap .
      • If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap ). Select the city/town from the list.
5. Enter the street name:
   a. Tap Street.
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      - The most likely street name is always shown in the input field. To accept it, tap 🔄.
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap 🔄). Select the street from the list.

6. Enter the house number:
   a. Tap <House Number>.
   b. Enter the house number on the keyboard. (To enter letters, tap QWE).
   c. Tap Done to finish entering the address. (If the entered house number cannot be found, the midpoint of the street is selected as the destination.)

7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor (失调) appears at the new location. Tap Next to confirm the destination, or tap Back to select a different destination.
8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.2.2 Entering an address (Canada)
To enter an address as the destination, do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. By default, Clarion Mobile Map proposes the country, state and city/town where you are. If needed, enter the first few letters of the destination country or state on the keyboard, and select one from the list. If you select a country without a state, you can search for a city/town in all its states.

4. If needed, select a new city/town:
   a. Tap
   b. Start entering the name of the city/town on the keyboard.
   c. Find the city/town you need:
      - The most likely city/town name is always shown in the input field. To accept it, tap .
• If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap [Results]). Select the city/town from the list.

5. Enter the street name:
   a. Tap [Street].
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      - The most likely street name is always shown in the input field. To accept it, tap [✓].
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap [Results]). Select the street from the list.

6. Enter the house number:
   a. Tap [House Number].
   b. Enter the house number on the keyboard. (To enter letters, tap [QWE]).
c. Tap to finish entering the address. (If the entered house number cannot be found, the midpoint of the street is selected as the destination.)

7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.2.3 Entering an address starting with the street name (in the United States only)
You can leave the city/town name empty and start the search with the street name. This way you can search in all streets of a state. Do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:
3. By default, Clarion Mobile Map proposes the country and state where you are. If needed, tap the button with the name of the country, enter the first few letters of the destination country or state on the keyboard, and select a country and state from the list. If you select the country without a state, this function cannot work.

4. Enter the street name:
   a. Tap Street.
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      - The most likely street name is always shown in the input field. To accept it, tap.
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap). Select the street from the list.
5. Enter the house number:
   
   a. Tap <House Number>.

   b. Enter the house number on the keyboard. (To enter letters, tap QWE).

   c. Tap Done to finish entering the address. (If the entered house number cannot be found, the midpoint of the street is selected as the destination.)

6. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor (Cursor) appears at the new location. Tap Next to confirm the destination, or tap Back to select a different destination.

7. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap More to modify route parameters, or tap Go and start your journey.
3.1.2.5 Entering the midpoint of a street as the destination

You can navigate to the midpoint of a street if the house number is not available:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Select the country, state and city/town as described earlier (page 35).

4. Enter the street name:
   a. Tap .
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      - The most likely street name is always shown in the input field. To accept it, tap .
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap ). Select the street from the list.

5. Instead of entering the house number, tap . The midpoint of the street is selected as the destination.
6. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

7. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.2.6 Selecting an intersection as the destination
To enter an address as the destination, do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Select the country, state and city/town as described earlier (page 35).

4. Enter the street name:
   a. Tap: 
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      • The most likely street name is always shown in the input field. To accept it, tap
- If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap ). Select the street from the list.

5. Enter the intersecting street name:

1. Tap `<Intersecting Street>`.
   - If only a few intersecting streets exist, their list appears immediately.
   - In case of a longer street, the keyboard screen appears. Start entering the name of the intersecting street on the keyboard. As soon as the street names that match the entered string can be shown on one screen, their list appears automatically. Select from the list.

6. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

7. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.
3.1.2.7 Selecting a city/town center as the destination

The city/town center is not the geometric center of the city/town but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection; in larger cities, it is one of the important intersections.

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Select the country and state as described earlier (page 35).

4. Select the destination city/town:
   a. Tap
   b. Start entering the name of the city/town on the keyboard.
   c. Find the city/town you need:
      - The most likely city/town name is always shown in the input field. To accept it, tap
      - If the desired name does not show up, the names that match the string appear in a list after entering a couple of characters (to open the list of results before it appears automatically, tap ). Select the city/town from the list.

5. Instead of entering the street name, tap . This way the center of the displayed city/town becomes the destination of the route.
6. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

7. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.2.8 Entering an address with a ZIP code

All of the above address searching possibilities can be performed with entering the ZIP code instead of the city/town name. Find below an example with a full address:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Select the country and state as described earlier (page 35).

4. Enter a new city/town using its ZIP code:

   a. Tap

   b. Tap to open the numeric keypad.

   c. Start entering the ZIP code.

   d. Find the city/town you need:

   - The most likely ZIP code is always shown in the input field. To accept it, tap .
- If the desired number does not show up, open the list of results by tapping 
  Select the ZIP code from the list.

5. Enter the street name:
   a. Tap Street.
   b. Start entering the street name on the keyboard.
   c. Find the street you need:
      - The most likely street name is always shown in the input field. To accept it, tap .
      - If the desired name does not show up, the names that match the string appear in a
        list after entering a couple of characters (to open the list of results before it appears
        automatically, tap ). Select the street from the list.

6. Enter the house number:
   a. Tap <House Number>.
   b. Enter the house number on the keyboard. (To enter letters, tap QWE).
c. Tap to finish entering the address. (If the entered house number cannot be found, the midpoint of the street is selected as the destination.)

7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.2.9 Tips on entering addresses quickly

- When you are entering the name of a city/town or a street:
  - Only those letters are offered on the keyboard that appear in possible search results. All other characters are grayed out.
  - As you are typing, the most likely result is always displayed in the input field. If the guess is correct, tap to select it.
  - After entering a couple of letters, tap to list the items that contain the specified letters.
• You can speed up finding an intersection:
  • Search first for the street with a less common or less usual name; fewer letters are enough to find it.
  • If one of the streets is shorter, search for that one first. You can then find the second one faster.
• You can search for both the type and the name of a road. If the same word appears in several names, for example in the name of streets, roads and avenues, you can obtain the result faster if you enter the first letter of the street type: For example, enter ‘PI A’ to obtain Pine Avenue and skip all Pine Streets and Pickwick Roads.
• You can also search in ZIP codes. As ZIP codes consist of only a few characters, this is usually faster than entering the name of the city/town.

3.1.3 Selecting the destination from the Places of Interest
You can select your destination from the Places of Interest included with Clarion Mobile Map.
Using the same screen, you can find a Place in different ways:
• with the Quick search feature, you can quickly find a nearby Place by its name
• with the Preset search feature, you can find frequently searched types of Places with only a few screen taps
• you can search for a Place by its category
• you can search for a Place by its name
In addition, you can search for special services from the ‘Where Am I?’ screen.

3.1.3.1 Quick search for a Place of Interest
The Quick search feature lets you quickly find a Place by its name. The search is always carried out
• along the recommended route if it exists or
• around your current location if there is no destination given.
1. Start the Quick search function:
   • If you are on the Map screen, tap and then tap
   • If you are in the Navigation menu, tap , and then tap
2. Using the keyboard, start entering the name of the Place.

3. After entering a few letters, tap to open the list of Places with names containing the entered character sequence.

4. (optional) The Places in the list are ordered by the length of the necessary detour (when navigating a route) or by their distance from the current position (when no destination is given). If you need to reorder the list, tap .

5. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

6. (optional) Tap to see the details of the selected Place. Tap to return to the map.

7. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.
8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap \textbf{Go} to modify route parameters, or tap \textbf{More} and start your journey.

3.1.3.2 Searching for a Place of Interest using preset categories
The Preset search feature lets you quickly find the most frequently selected types of Places.

1. If you are on the Map screen, tap \textbf{Menu} to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. The preset search categories appear:

- If an active route exists, gas stations are searched along the route.
- If there is no active route (destination is not selected), they are searched around the current position.
- If the current position is not available either (no GPS signal), they are searched around the last known position.
- If an active route exists, parking lots are searched around the destination of the route.
• If there is no active route (destination is not selected), they are searched around the current position.
• If the current position is not available either (no GPS signal), they are searched around the last known position.

• If an active route exists, restaurants are searched along the route.
• If there is no active route (destination is not selected), they are searched around the current position.
• If the current position is not available either (no GPS signal), they are searched around the last known position.

• If an active route exists, accommodation is searched around the destination of the route.
• If there is no active route (destination is not selected), they are searched around the current position.
• If the current position is not available either (no GPS signal), they are searched around the last known position.

4. Tap any of the quick search buttons to get an instant list of Places.

5. (optional) The Places in the list are ordered by their distance from the current or last known position, from the destination or by the length of the necessary detour. If you need to reorder the list, tap .

6. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

7. (optional) Tap to see the details of the selected Place. Tap to return to the map.

8. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.
9. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.3.3 Searching for a Place of Interest by category
You can search for Places of Interest by their categories and subcategories.

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Tap

4. Select the area around which the Place should be searched for:

   - Tap to search around the current position or if it is not available, around the last know position. (The result list will be ordered by the distance from this position.)

   - Tap to search for a place within a selected city/town. (The result list will be ordered by the distance from the center of the selected city/town.)

   - Tap to search for a place around the destination of the active route. (The result list will be ordered by the distance from the destination.)
• Tap to search along the active route, and not around a given point. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming gas stations or restaurants. (The result list will be ordered by the length of the necessary detour.)

5. (optional) If you have selected , select the city/town to search in.

6. Select one of the main Place categories (e.g. Accommodation) or tap to list all Places around the selected location or along the route.

7. Select one of the Place subcategories (e.g. Hotel or Motel) or tap to list all Places in the selected main category around the selected location or along the route.
8. Sometimes the list of brands in the selected Place subcategory appears. Select one brand or tap List All Places to list all Places in the selected subcategory around the selected location or along the route.

9. Finally, the results appear in a list.

10. (optional) The Places in the list are ordered by their distance from the current or last known position, from the selected city/town, from the destination or by the length of the necessary detour. If you need to reorder the list, tap More.

11. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

12. (optional) Tap Back to see the details of the selected Place. Tap Next to return to the map.

13. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap Next to confirm the destination, or tap Back to select a different destination.
14. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap \( \text{More} \) to modify route parameters, or tap \( \text{Go} \) and start your journey.

3.1.3.4 Searching for a Place of Interest by name

You can search for Places of Interest by their names. You can search around different locations or along your route in the whole Place database or in one Place category or subcategory only.

1. If you are on the Map screen, tap \( \text{Menu} \) to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Tap \( \text{Find} \)

4. Select the area around which the Place should be searched for:
   - Tap \( \text{Around Here} \) to search around the current position or if it is not available, around the last know position. (The result list will be ordered by the distance from this position.)
   - Tap \( \text{In a City} \) to search for a place within a selected city/town. (The result list will be ordered by the distance from the center of the selected city/town.)
   - Tap \( \text{Around Destination} \) to search for a place around the destination of the active route. (The result list will be ordered by the distance from the destination.)
• Tap the Along Route button to search along the active route, and not around a given point. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming gas stations or restaurants. (The result list will be ordered by the length of the necessary detour.)

5. (optional) If you have selected the city/town to search in.

6. Select one of the main Place categories (e.g. Accommodation) to search in or tap Find by Name to search among all Places.

7. Select one of the Place subcategories (e.g. Hotel or Motel) to search in or tap to search in the selected Place category.
8. Tap **Find by Name** if you have not done it before.

9. Using the keyboard, start entering the name of the Place.

10. After entering a few letters, tap **open** to open the list of Places with names containing the entered character sequence.

11. (optional) The Places in the list are ordered by their distance from the current or last known position, from the selected city/town, from the destination or by the length of the necessary detour.

   If you need to reorder the list, tap **more**.

12. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

13. (optional) Tap **more** to see the details of the selected Place. Tap **back** to return to the map.

14. If necessary, tap the map somewhere else to modify the destination. The Cursor **mouse** appears at the new location. Tap to confirm the destination, or tap to select a different destination.
15. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap \( \text{More} \) to modify route parameters, or tap \( \text{Go} \) and start your journey.

3.1.3.5 Searching for a Place of Interest by its phone number

You can search for Places of Interest by their phone number:

1. If you are on the Map screen, tap \( \text{Menu} \) to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. The numeric keyboard appears. Enter the phone number you are looking for or a part of it.

4. Tap \( \text{Done} \).

5. The list of Places with the entered sequence in their phone number appears.

6. (optional) The Places in the list are ordered by their distance from the current or last known position, from the selected city/town, from the destination or by the length of the necessary detour. If you need to reorder the list, tap \( \text{More} \).

7. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

8. (optional) Tap \( \text{i} \) to see the details of the selected Place. Tap \( \text{Back} \) to return to the map.
9. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

10. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.3.6 Selecting nearby assistance from 'Where Am I?'

You can quickly search for nearby assistance from the 'Where Am I?' screen.

1. On the Map screen, tap to open the Quick menu.

2. Tap , and then .

3. Preset search categories appear, all for searching around the current position (or around the last known position if the current position is not available):

   - Car Repair Around Here: Car repair and roadside assistance services
4. Tap any of the quick search buttons to get an instant list of that type of Places.

5. (optional) The Places in the list are ordered by their distance from the current or last known position, from the selected city/town, from the destination or by the length of the necessary detour. If you need to reorder the list, tap .

6. Browse the list if necessary and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.

7. (optional) Tap to see the details of the selected Place. Tap to return to the map.

8. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

9. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.
3.1.4 Selecting a map location as the destination

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap the following buttons:

3. Locate your destination on the map: move and scale the map as needed.

4. Tap the location that you want to select as your destination. The Cursor ( ) appears there.

5. Tap to select the Cursor as the destination.

6. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

3.1.5 Selecting the destination from your Favorites

You can select a location that you have already saved as a Favorite to be your destination. Adding a location to the list of Favorite destinations is described on page 77.

1. Access the list of Favorites:
   
   - If you are on the Map screen, tap to open the Quick menu.
   
   - If you are in the Navigation menu, tap ...
2. Tap \( \text{Favorites} \). The list of Favorite destinations is displayed.

3. Tap the Favorite that you want to set as your destination. If necessary, browse down to see more of the list or tap \( \text{Filter} \) and enter a few letters from the name of the Favorite destination.

4. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor (\( \text{Cursor} \)) appears at the new location. Tap \( \text{Next} \) to confirm the destination, or tap \( \text{Back} \) to select a different destination.

5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap \( \text{More} \) to modify route parameters, or tap \( \text{Go} \) and start your journey.
3.1.6 Selecting your Home location

To navigate to your Home location, first you need to save it. Search for your address or browse the map and when the Cursor is at the desired location, tap and select.

Now that the Home location is set, you can quickly navigate to it:

1. To select the Home location, do one of the following:
   - If you are on the Map screen, tap and then tap (this button can be added to the Quick menu in Settings - page 93).
   - If you are in the Navigation menu, tap and then tap.

2. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

3. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.
3.1.7 Selecting a recent destination from the History

The destinations that you have set earlier appear in the History.

1. Access the History:
   - If you are on the Map screen, tap and then tap .
   - If you are in the Navigation menu, tap and then tap .

2. The list of recent destinations appears. Smart History promotes three destinations to the first page based on your previous routes (most likely destinations). The rest of the destinations are ordered by time they were last selected. If necessary, scroll the list to see earlier destinations.

3. Select a destination from the list.

4. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap to confirm the destination, or tap to select a different destination.

5. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.
3.1.8 Entering the coordinate of the destination

You can also select a destination by entering its coordinate. Do as follows:

1. If you are on the Map screen, tap ![Menu](image) to return to the Navigation menu.

2. In the Navigation menu, tap ![Find](image).

3. Open the ![More](image) menu and tap ![Coordinate](image).

4. You can enter the latitude and longitude values in any of the following formats: decimal degrees; degrees and decimal minutes; or degrees, minutes and decimal seconds.

5. (optional) If necessary, tap ![More](image) then ![UTM](image) and enter the coordinate in UTM format.

6. When finished, tap ![Done](image).

7. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The Cursor ( ) appears at the new location. Tap ![Next](image) to confirm the destination, or tap ![Back](image) to select a different destination.
8. After a short summary of the route parameters, the map appears showing the entire route. The route is automatically calculated. Tap to modify route parameters, or tap and start your journey.

![Map with route parameters](image)

3.1.9 Building a route from the list of destinations (Create Route)
You can also build your route destination by destination from the My Route menu.

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap .

3. Tap .

![Create Route menu](image)

4. There is only one line in the list of route points, the start point of the route, normally the current GPS position.

5. Tap to select the destination.
6. The Destination menu appears and you can select the destination of the route the same way as described in the previous sections.

7. When the new destination is selected, the list returns.

8. To add more destinations, tap where you want to insert the new route point in the list, and repeat the above procedure.

3.2 Viewing the entire route on the map

It is easy to get a map overview of the active route. Do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap .

3. Tap . The active route is displayed in its full length on the map together with additional information and controls.
3.3 Checking route parameters and accessing route related functions

You can check different parameters of the route recommended by Clarion Mobile Map.

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap .

3. The following pieces of information are displayed:
   - The name and/or address of the destination.
   - Warning icons (if any). They provide extra information about your route (e.g. unpaved roads or toll roads to be taken).
   - The total time of the route.
   - The total length of the route.
   - Estimated delay calculated from traffic events on your route.
   - The symbol of the vehicle type used in route calculation.
   - The route planning method (e.g. Fast).

4. You have the following options on this screen (for detailed instructions on how to use them, see the next chapter):
   - Tap to edit the route: to add or remove destinations or change their sequence. You can also set a route start point other than your current location. This can be useful to plan and save a future trip.
   - Tap to display the entire route on the map.
   - Tap to bypass a part of the route.
   - Tap to delete the active route.
   - Tap to open a list with more options like selecting from route alternatives, changing route parameters, simulating the route, saving the active route or loading a previously saved route.
   - Tap to return to the Navigation menu.
3.4 Modifying the route
When navigation is already started, there are several ways to modify the active route. The following sections show some of those options.

3.4.1 Selecting a new destination when already having a route: New Route, Waypoint or Final Destination
If you already have a recommended route and you select a new destination as described in the above sections, the application will ask you whether to start a new route, add a new waypoint (intermediate destination) to the route or append the newly selected destination at the end of the current route.

- Tap to plan a new route to the newly selected location. The previous destination and waypoint(s) are deleted.
- Tap to add the newly selected location as an intermediate destination to your route. The other destinations of the route remain intact. Note: the new waypoint is placed among destinations to keep the route optimal. To decide where a waypoint to appear, use the Edit Route feature.
- Tap to append the newly selected destination at the end of the route. The other destinations of the route remain intact. The previous final destination is now the last waypoint.

3.4.2 Setting a new starting position for the route
For normal navigation, all routes are planned from the current position. In order to check future routes, simulate them or see their length in time and distance, you can turn off the GPS receiver. Then you can set the starting point of the route to a different location than the current GPS position.

1. If you are on the Map screen, tap to return to the Navigation menu.
2. In the Navigation menu, tap .
3. If you already have a route, tap [Edit Route]. If you are starting a new route, tap [Create Route].

4. The first line is the start of the route, normally the current GPS position. Tap [Set Start Point] and confirm your action at the warning message.

5. The Destination menu appears and you can select the start point of the route the same way you select a destination.

6. When the new start point is set, tap [Go].
7. The map returns with a transparent Vehimarker (showing that there is no GPS reception). If an active route already existed, it is now recalculated starting from the selected location.

8. To return to normal navigation, tap Turn on GPS.

3.4.3 Editing the list of destinations (Edit Route)

You can edit the route by modifying the list of destinations. You can add or remove destinations, modify the start position or reorder the list.

1. If you are on the Map screen, tap Menu to return to the Navigation menu.

2. In the Navigation menu, tap My Route.

3. Tap Edit Route.

4. You have the following options:

   - Tap + to add a new destination.
   - Tap - to delete a destination.
   - Tap $ to modify the start point of the route.
   - Tap ▲ More to reorder the list. You can do it manually or you can let the application optimize the route for you.
3.4.4 Pausing the active route
You do not need to pause the active route: when you start driving again, Clarion Mobile Map restarts the voice instructions from your position.

3.4.5 Canceling the active route
To cancel the navigated route, do one of the following:

- If you are on the Map screen, tap \[\text{Cancel Route}\] and then tap \[\text{Finish}\]. (If you have a route with waypoints, you need to tap \[\text{Confirm Next Waypoint}\] until all waypoints are deleted.)
- In the Navigation menu, tap \[\text{My Route}\] and then tap \[\text{Cancel Route}\]. The active route is deleted with all its waypoints.

3.4.6 Checking route alternatives when planning the route
You can select from different route alternatives or change the route planning method after you have selected a new destination. Do as follows:

1. Select a destination as explained earlier, and get to the route confirmation screen.

2. Tap \[\text{More}\].

3. Tap \[\text{Route Alternatives}\].
4. You see the basic details of three route alternatives with the selected route planning method. Tap any of them to see it on the map.

5. Or if you cannot find a good alternative, tap More Results and scroll down for routes with different routing methods.

6. Select one of the route alternatives and tap to return to the previous screen. Clarion Mobile Map recalculates the route. The orange line now shows the new recommended route.

3.4.7 Checking route alternatives for an existing route

To recalculate the active route with a different route planning method, you can modify the Route settings (page 93). There is another way to do this and to compare different route alternatives with the same route planning method. Do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap.
3. Tap "More".

4. Tap "Route Alternatives".

5. You see the basic details of three route alternatives with the selected route planning method. Tap any of them to see it on the map.

6. Or if you cannot find a good alternative, tap "More Results" and scroll down for routes with different routing methods.

7. Select one of the route alternatives then tap and hold for a few seconds to return to the Map screen. Clarion Mobile Map recalculates the route. The orange line now shows the new recommended route.
3.4.8 Changing the road types used in route planning

To recalculate the active route with different road type preferences, do as follows. These changes can also be made in Settings (page 93).

1. On the Map screen, tap and then tap .

2. Tap any of the listed road types to modify the route. If needed, scroll the list for all road types. You have the following options (their order depends on the selected vehicle type):

   - **Motorways** - You might need to avoid freeways when you are driving a slow car or you are towing another vehicle.

   - **Period Charge** - Charge roads are pay roads where you can purchase a pass or vignette to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.

   - **Per-use Toll** - Clarion Mobile Map includes toll roads (pay roads where there is a per-use charge) in the routes by default. If you disable toll roads, Clarion Mobile Map plans the best toll-free route.

   - **Ferries** - Clarion Mobile Map includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.

   - **Unpaved Roads** - Clarion Mobile Map excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.

   - **Carpool/HOV** - Carpool or HOV lanes can be used if a given number of passengers are traveling in the vehicle. You should check whether you are allowed to use carpool lanes before enabling this road type.

3. The route has already been recalculated. Tap to return to the Map screen. The orange line now shows the new recommended route.
3.5 Saving a location as a Favorite destination

You can add any location to Favorites, the list of frequently used destinations. Planning a route to one of the Favorite destinations is described on page 62.

1. Select a destination as described before. It can be an address, a Place, any location on the map, a previously used destination from History, etc.

2. When the full screen map appears with the selected location in the middle, tap More.

3. Tap Add to Favorites.

4. (optional) Using the keyboard, you can change the name offered for the Favorite. Tap to enter numbers or symbols.

5. Tap to save the location as a new Favorite destination.

3.5.1 Editing the details of a Favorite destination

You can select a location that you have already saved as a Favorite and edit its details. Adding a location to the list of Favorite destinations is described on page 77.

1. Access the list of Favorites:

   • If you are on the Map screen, tap and then tap Favorites.

   • If you are in the Navigation menu, tap Find and then tap Favorites.
2. The list of Favorite destinations is displayed.

3. Tap the Favorite that you want to edit. If necessary, browse down to see more of the list or tap and enter a few letters from the name of the Favorite destination.

4. A full screen map appears with the selected point in the middle.

5. Tap to see the details of the selected Place.

6. Tap any of the data fields and modify its content.

7. Tap and hold to return to the map.

3.6 Saving a map location as an alert point

You can save any map location as an alert point (for example a speed camera or a railroad crossing).

1. Browse the map and select a location. The red Cursor appears there.

2. Tap .

3. Scroll down the list and tap .
4. On the newly opened screen, select the type of the alert point, the direction from which you expect the alert, and (if applicable) the speed limit for this alert point.

5. Tap to save the location as a new alert point.

3.7 Editing an alert point

You can edit a previously saved or uploaded alert point (for example a speed camera or a railroad crossing).

1. Browse the map and select the alert point to edit. The red circle appears around the alert point.

2. Tap .

3. Scroll down the list and tap .

4. On the newly opened screen, modify the type of the alert point, the direction from which you expect the alert, or (if applicable) the speed limit for this alert point.

5. Tap to save the changes to the alert point.
3.8 Watching the simulation of the route
You can run a simulated navigation that demonstrates the active route. Do as follows:

1. If you are on the Map screen, tap to return to the Navigation menu.

2. In the Navigation menu, tap .

3. Tap .

4. Scroll down the list and tap . The simulation starts from the starting point of the route, and using a realistic speed, it leads you through the whole recommended route.

1. (optional) You have the following controls during the simulation (the control buttons disappear after a few seconds but you can open them again if you tap the map):
   - Play: Jump to the next route event (maneuver).
   - Pause: Pause the simulation.
   - : Jump to the previous route event (maneuver).
- **1x**: Tap to increase the speed of the simulation to 4, 8 or 16 times faster. Now tap again to return to the normal speed.

2. Tap **Back** to stop the simulation.
4 Off-road navigation

When first started, Clarion Mobile Map calculates routes using the road network of the high quality vector maps provided with the product. You can switch the application to off-road mode in Route settings in one of the following ways:

- From the Main menu, tap More..., and then Navigation Mode.
- From the Map screen, tap Route Settings and then Navigation Mode.

Most of the procedures described for on-road navigation also apply to off-road navigation. However, there are some that are not available in this navigation mode (for example you cannot open the itinerary as you have no maneuvers just route points and straight lines between them).

4.1 Selecting the destination of the route

Selecting the start point or a destination (waypoint or final destination) is the same as described at on-road navigation. The only difference is that route points are linked to form a route with straight lines regardless of the road network and traffic regulations.

4.2 Navigating in off-road mode

The real difference between the on-road and off-road modes is the navigation itself. When you are on the Map screen with an off-road route:

- your position and heading is not aligned with the nearest road and
- there is no turn by turn navigation just a recommended direction.

You see a orange line drawn between your current position and the next destination to reach. The Turn Preview field in the top left corner shows a compass with your bearing and the distance of the next destination.

When you reach a waypoint, the orange line will show the direction to the next destination. (Future legs of the route are shown with orange lines.)

When you reach the final destination, navigation ends.
5 Reference Guide
On the following pages you will find the description of the different concepts and menu screens of Clarion Mobile Map.

5.1 Concepts

5.1.1 Smart Zoom
Smart Zoom provides much more than just a usual automatic zoom feature:

• **While following a route:** when approaching a turn, it will zoom in and raise the view angle to let you easily recognize your maneuver at the next junction. If the next turn is at a distance, it will zoom out and lower the view angle to be flat so you can see the road in front of you.

• **While driving without an active route:** Smart Zoom will zoom in if you drive slowly and zoom out when you drive at high speed.

5.1.2 Daytime and night color themes
Clarion Mobile Map uses different color themes during the day and during the night for both the map and the menu screens.

• Daytime colors are similar to paper road maps, and the menus are bright.

• The night color themes use dark colors for large objects to keep the average brightness of the screen low.

Clarion Mobile Map offers different daytime and night color profiles. It can also switch automatically between the daytime and the night schemes based on the current time and GPS position a few minutes before sunrise, when the sky has already turned bright, and a few minutes after sunset, before it becomes dark.
5.1.3 Tunnel view

When entering a tunnel, the map is replaced with a generic tunnel image so that surface roads and buildings cannot distract you.

The top-down overview of the tunnel helps you orient yourself. The remaining distance in the tunnel is also displayed.

After leaving the tunnel, the original map view returns.

This feature can be turned off in Settings (page 97).

5.1.4 Route calculation and recalculation

Clarion Mobile Map calculates the route based on your preferences:

- Route planning methods:

  - **Fast**: Gives a quick route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.

  - **Short**: Gives a route that has the smallest total distance of all possible routes. It can be practical for slow vehicles.

  - **Green**: Gives a quick but fuel efficient route based on the fuel consumption data given in Route settings (page 93). Travel cost and CO₂ emission calculations are estimations only. They cannot take elevations, curves and traffic conditions into account.

  - **Economical**: For vehicle types where Green routing is not available, this method combines the benefits of Fast and Short: Clarion Mobile Map calculates as if it were calculating the Fast route, but it takes other roads as well to save fuel.

  - **Easy**: Results in a route with fewer turns and no difficult maneuvers. With this option, you can make Clarion Mobile Map to take, for example, the freeway instead of a series of smaller roads or streets.
Vehicle types:
When creating a new vehicle profile, select one of the below vehicle types. Besides the below mentioned conditions, dimension, weight and freight hazard restrictions can also be taken into account when planning a route.

Road types used or avoided in route calculation:

- Motorways
- Period Charge
- Per-use Toll
- Ferries
- Unpaved Roads
- Carpool/HOV

Clarion Mobile Map automatically recalculates the route if you deviate from the proposed itinerary.
For further information about Route settings, see page 93.

5.1.5 Green routing
Route calculation is not only about finding the quickest or shortest route. For some of the vehicle types, you can also check the fuel consumption and CO₂ emission when planning a route, and you can create cost effective routes with less effect on the environment.

In Route settings, you can edit the parameters of the selected vehicle. Enter the fuel consumption values and the price of the fuel. You can also select whether you want to see the difference between your route and the green route even if the selected routing method is not Green.

After the above parameters are set, select Green as route planning method to get a fast but also fuel efficient route. Note that travel cost and CO₂ emission calculations are estimations only. They cannot take elevations, turns, curves and traffic conditions into account. Also, this routing is not meant to give you the “greenest” route of all. It is still important to travel quickly so the result is a fast route with low fuel consumption and CO₂ emission.
With a vehicle type where green routing is selectable, whichever route planning method is selected, the Green details are also shown when you confirm the route:

If the selected route planning method is not Green, and you have allowed the application to show the green alternative, the price, fuel consumption and CO₂ emission differences between your selected route and the Green route are also shown on this screen:

Tap the field with these details to switch the route to Green immediately.

5.1.6 Road safety cameras and other proximity alert points

There is a special proximity warning for road safety cameras (like speed or red light cameras) and other proximity alert points (like schools or railroad crossings). These alert points are not part of Clarion Mobile Map. You can download them from www.naviextras.com or you can upload points in a specific text file if needed.

You can also add your own alert points or edit the previously uploaded points. See page 78 for details.

The application can warn you when you approach road safety cameras like speed cameras or dangerous areas like school zones or railroad crossings. You can set up the different alert types individually in Sound and Warning settings (page 91).

The following alert types are available:

- **Audio warning**: beeps can be played (natural voice) or the type of the alert can be announced (TTS) while you are approaching one of these points, and an extra alert can warn you if you exceed the given speed limit while approaching.

- **Visual warning**: the type of the alert point, its distance and the related speed limit appear on the Map screen while you are approaching one of these cameras.

For some of the alert points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.

- **Only when speeding**: The audio alert is only played when you exceed the given speed limit.

- **When approaching**: The audio alert is always played when approaching one of these alert points. In order to draw your attention, the alert can is different when you exceed the speed limit.
The warning for road safety cameras is disabled when you are in a country where road safety camera warning is prohibited. However, you must ensure on your own liability that using this feature is legal in the country where you intend to use it.

5.1.7 Speed limit warning

Maps may contain information about the speed limits of the road segments. Clarion Mobile Map is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer), or may not be fully correct for all roads in the map.

The maximum speed set in the vehicle profile is also used for this warning. Clarion Mobile Map alerts you if you exceed the preset value even if the legal speed limit is higher.

Speed warning can be fine-tuned in Sound and Warning settings (page 91).

You can set the relative speed above which the application initiates the warning.

The following alert types are available:

- **Audio warning**: you receive a verbal warning when you exceed the speed limit with the given percentage.
- **Visual warning**: the current speed limit is shown on the map when you exceed it (for example: ![SPEED LIMIT 50](image)).

You can also choose to see the speed limit sign on the map all the time.
5.2 'More' menu

The 'More' menu provides you with various options and additional applications. On the map screen, tap the following buttons:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Settings" /></td>
<td>You can configure the program settings, and modify the behavior of Clarion Mobile Map. Fine-tune route planning options, change the look of the Map screen, turn on or off warnings, or restart the Configuration wizard, and so on. See the next chapter for details.</td>
</tr>
<tr>
<td><img src="image" alt="Unit Converter" /></td>
<td>Access travel applications: the unit converter helps you convert between various different international units for temperature, speed, area or pressure, etc.</td>
</tr>
<tr>
<td><img src="image" alt="Calculator" /></td>
<td>The scientific calculator helps you in all your calculation needs. Tap the Mode button for additional functions and use the memory to save your results.</td>
</tr>
<tr>
<td><img src="image" alt="Fuel Consumption" /></td>
<td>The Fuel consumption monitor helps you keep track of the consumption of your car even if you do not use navigation for all your journeys. Set the initial odometer value and then record the distance taken and fuel filled in whenever you fill your car. You can also set reminders for regular car maintenance.</td>
</tr>
<tr>
<td><img src="image" alt="Sunset &amp; Sunrise" /></td>
<td>Tap this button to see the sunlit and dark areas of the world. Your current location and route points are marked on the map. Tap the Details button to see the exact sunrise and sunset times for all your route points (your current location, all waypoints and the final destination).</td>
</tr>
<tr>
<td><img src="image" alt="Trip Monitor" /></td>
<td>If you save your trip logs when you arrive at some of your destinations or let the application automatically save the trip logs for you, those logs are all listed here. Tap one of the trips to see the trip statistics, speed and altitude profile. If track log has also been saved, you can display it on the map with the selected color. Track logs can be exported to GPX files for later use.</td>
</tr>
<tr>
<td><img src="image" alt="Country Information" /></td>
<td>Select a country from the list and see useful driving information about the selected country. Information may include speed limits on different road types, the maximum blood alcohol level and any compulsory equipment you need to show when stopped by the police.</td>
</tr>
</tbody>
</table>
Run the Demo and watch sample route simulations to see how navigation works. The About section provides you with product information. Read the Software and Database End User License Agreement, or check the map and other contents of the application. You can also access program usage statistics.

5.3 Settings menu

You can configure the program settings, and modify the behavior of Clarion Mobile Map.

On the map screen, tap the following buttons:

The Settings menu has several options. Tap or scroll with your finger to see the full list.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound and Warnings</td>
<td>Adjust the sound volume, mute your device or change the voice guidance language. In addition, you can enable and set up different warnings and alerts.</td>
</tr>
<tr>
<td>Customize Quick Menu</td>
<td>The content of the Quick menu (page 20) is fully customizable. Tap the button you want to change, and select its new function from the list.</td>
</tr>
<tr>
<td>Route Settings</td>
<td>These settings determine how routes will be calculated. Select the type of vehicle you are driving, the road types used in route planning, and the route planning method.</td>
</tr>
<tr>
<td>User Profiles</td>
<td>If more drivers use Clarion Mobile Map for navigating, their settings can be remembered by using one of the user profiles.</td>
</tr>
<tr>
<td>Map Settings</td>
<td>You can fine-tune the appearance of the Map screen. Adjust the map view to your needs, choose suitable color themes from the list for both daytime and night use, change the blue arrow to a 3D car model, show or suppress 3D buildings, turn track logging on or off, and manage your Place visibility sets (which Places to show on the map).</td>
</tr>
<tr>
<td>Visual Guidance Settings</td>
<td>Adjust how the software helps you navigate with different kinds of route related information on the Map screen.</td>
</tr>
<tr>
<td>Display</td>
<td>Display related settings.</td>
</tr>
</tbody>
</table>
These settings allow you to customize the application for your local language, measurement units, time and date settings and formats, as well as to choose the time zone.

Trip logs and track logs contain useful information about your trips. Trip logs can be saved manually when you reach your destination or you can turn on the automatic saving here.

The application collects usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. Here you can enable or disable collecting these logs.

Modify the basic software parameters set during the initial setup process. For details, see page 7.

These settings determine how user data is managed. There are three options:

- **Backup User Data**: All user data and the current settings are saved on the inserted USB Memory and each backup is stored in a new file.

- **Restore User Data**: All user data and the settings are overwritten with the information stored in the latest backup file.

- **Delete User Data**: All the user backup files are deleted.

Delete all saved data and reset all settings to their factory defaults.
### 5.3.1 Sound and Warnings

Adjust the sound volume, mute your device or change the voice guidance language. In addition, you can enable and set up different warnings and alerts.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>Tap this button to adjust the volume of the different sounds in the application. A new screen shows the different sound types and their controls. See below for details.</td>
</tr>
<tr>
<td>Voice Language</td>
<td>This button shows the current voice guidance profile. By tapping the button, you can select a new profile from the list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap <img src="https://example.com/back" alt="Back" /> when you have selected the new spoken language. Different voice profiles are capable of different levels of service:</td>
</tr>
<tr>
<td></td>
<td>- Natural Voice: These prerecorded sounds can only tell you basic information about turns and distances.</td>
</tr>
<tr>
<td></td>
<td>- TTS Voice: These computed voices can tell you complex instructions, they can tell you the street names or read out the system messages for you.</td>
</tr>
<tr>
<td>TTS Pro</td>
<td>Tap this button to adjust the enhanced TTS features. The following settings are available:</td>
</tr>
<tr>
<td></td>
<td>- You can set the feature to read out traffic messages.</td>
</tr>
<tr>
<td></td>
<td>- Whenever a route is calculated, the software can read out the quick summary of the route.</td>
</tr>
<tr>
<td></td>
<td>- When you cross country borders, the application can read out the information about the country you have just entered.</td>
</tr>
<tr>
<td></td>
<td>- All system messages can also be announced.</td>
</tr>
<tr>
<td>Advanced Settings</td>
<td>Street names sound correctly only if you use a native voice profile for the country. You can decide whether the application  Adam  tries to read the street names in a foreign country, use road numbers in your language or announces the maneuver only. You can also decide whether you want an announcement for distance maneuvers or it is enough to receive the information when the turn is near.</td>
</tr>
<tr>
<td>Verbosity Level</td>
<td>Tap this button to set the verbosity of the voice instructions: how much they tell and how often they speak.</td>
</tr>
</tbody>
</table>
Maps may contain information about the speed limits of the road segments. Clarion Mobile Map is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer), or may not be fully correct for all roads in the map.

The maximum speed set in the vehicle profile is also used for this warning. Clarion Mobile Map alerts you if you exceed the preset value even if the legal speed limit is higher.

This setting lets you decide whether you wish to receive visible and/or audible warnings.

Adjust the slider to set the relative speed above which the application initiates the warning.

The following alert types are available:

- **Audio warning**: you receive a verbal warning when you exceed the speed limit with the given percentage.
- **Visual warning**: the current speed limit is shown on the map when you exceed it.

If you prefer to see the speed limit sign on the map all the time (normally it is shown only if your speed exceeds it), you can set it here.

### Alert Point Settings

This feature allows you to receive a warning when approaching a Road Safety Camera or other alert points like school zones or railroad crossings. You must ensure on your own liability that using this feature is legal in the country where you intend to use it.

You can set the alert for the different alert point categories individually. The following alert types are available:

- **Audio warning**: beeps can be played (natural voice) or the type of the alert can be announced (TTS) while you are approaching one of these points, and an extra alert can warn you if you exceed the given speed limit while approaching.
- **Visual warning**: the type of the alert point, its distance and the related speed limit appear on the Map screen while you are approaching one of these cameras.

For some of the alert points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.

- **Only when speeding**: The audio alert is only played when you exceed the given speed limit.
- **When approaching**: The audio alert is always played when approaching one of these alert points. In order to draw your attention, the alert is different when you exceed the speed limit.

### Warning Sign Alerts

Maps may contain driver alert information. Tap this button to turn on or off these warnings and to set the distance from the hazard to receive the warning at. These can be set individually for the different warning types.
You can control the volume of the following sound types:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master</td>
<td>This is the main volume control. Use the hardware knob to adjust the main volume.</td>
</tr>
<tr>
<td>Voice</td>
<td>These controls affect the volume of the guidance sounds (verbal instructions).</td>
</tr>
<tr>
<td>Ding</td>
<td>Turn off the attention tone preceding verbal instructions or adjust its volume.</td>
</tr>
<tr>
<td>Alert Beeps</td>
<td>These controls affect the volume of the non verbal alert sounds (beeps).</td>
</tr>
</tbody>
</table>

Controls for each sound type:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume slider</td>
<td>Adjusts the volume of the related sound.</td>
</tr>
<tr>
<td>![Mute]</td>
<td>Use the switch to mute the related sound. The slider becomes inactive. Tap again to re-enable.</td>
</tr>
</tbody>
</table>

5.3.2 Customize Quick menu

The content of the Quick menu (page 20) is fully customizable. Tap the button you want to change, and select its new function from the list.

The list of available functions and their descriptions are on page 20.

5.3.3 Route settings

These settings determine how routes will be calculated.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation Mode</td>
<td>On-road navigation creates a turn by turn itinerary using the road network on the map. Switch to off-road navigation to navigate between destinations in a straight line.</td>
</tr>
<tr>
<td>Route Planning Method</td>
<td>The route calculation can be optimized for different situations and vehicle types by changing the planning method. See below for details.</td>
</tr>
<tr>
<td>![Green] Calculate Green Alternative</td>
<td>If the selected routing method is not Green, you can have your route compared to the best green alternative on the screen when confirming the route. If this alternative is much better than the selected method, you can quickly switch to Green mode.</td>
</tr>
</tbody>
</table>
To let the route fit your needs, you can also set which road types are to be considered for or to be excluded from the route if possible.

Excluding a road type is a preference. It does not necessarily mean total prohibition. If your destination can only be accessed using some of the excluded road types, they will be used but only as much as necessary. In this case a warning icon will be shown on the My Route screen, and the part of the route not matching your preference will be displayed in a different color on the map.

In the list of road types you can see in how many segments and what total length of the road type is used in the current route.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motorways</td>
<td>You might need to avoid freeways when you are driving a slow car or you are towing another vehicle.</td>
</tr>
<tr>
<td>Period Charge</td>
<td>Charge roads are pay roads where you can purchase a pass or vignette to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.</td>
</tr>
<tr>
<td>Per-use Toll</td>
<td>Clarion Mobile Map includes toll roads (pay roads where there is a per-use charge) in the routes by default. If you disable toll roads, Clarion Mobile Map plans the best toll-free route.</td>
</tr>
<tr>
<td>Ferries</td>
<td>Clarion Mobile Map includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.</td>
</tr>
<tr>
<td>Unpaved Roads</td>
<td>Clarion Mobile Map excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.</td>
</tr>
<tr>
<td>Carpool/HOV</td>
<td>Carpool or HOV lanes can be used if a given number of passengers are traveling in the vehicle. You should check whether you are allowed to use carpool lanes before enabling this road type.</td>
</tr>
</tbody>
</table>
**Vehicle profiles:**

When you tap the `Vehicle` button, you can set the following parameters:

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Tap this button to rename the profile for something meaningful.</td>
</tr>
<tr>
<td>Fuel Consumption Urban</td>
<td>Enter the average consumption of your vehicle when used in built-up areas. The unit for consumption can be set in Regional Settings.</td>
</tr>
<tr>
<td>Fuel Consumption Rural</td>
<td>Enter the average consumption of your vehicle when used on highways. The unit for consumption can be set in Regional Settings.</td>
</tr>
<tr>
<td>Type of Engine</td>
<td>Select the engine and fuel type of your vehicle. This helps in estimating the CO₂ emission.</td>
</tr>
<tr>
<td>Price of Fuel</td>
<td>Enter the average fuel price for travel cost calculation. The currency can be set in Regional Settings.</td>
</tr>
<tr>
<td>Max. Speed</td>
<td>Set the maximum speed you travel with the vehicle.</td>
</tr>
</tbody>
</table>

**Route Planning Method types:**

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast</td>
<td>Gives a quick route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.</td>
</tr>
<tr>
<td>Short</td>
<td>Gives a short route to minimize the distance to travel. It can be practical for slow vehicles. Searching for a short route regardless of the speed, this route type is rarely practical for normal vehicles.</td>
</tr>
<tr>
<td>Green</td>
<td>Gives a quick but fuel efficient route based on the fuel consumption data given in Route settings (page 93). Travel cost and CO₂ emission calculations are estimations only. They cannot take elevations, curves and traffic conditions into account.</td>
</tr>
<tr>
<td>Easy</td>
<td>Results in a route with fewer turns and no difficult maneuvers. With this option, you can make Clarion Mobile Map to take, for example, the freeway instead of a series of smaller roads or streets.</td>
</tr>
</tbody>
</table>
5.3.4 User profiles

If more drivers use Clarion Mobile Map for navigating, their settings can be remembered by using one of the user profiles. Rename the profiles after tapping the edit button on the right so that all users know which profile to use and switch between profiles by tapping its name. If you select a new profile, the application restarts so that the new settings can take effect.

![User Profiles]

5.3.5 Map settings

You can fine-tune the appearance of the Map screen. Adjust the map view to your needs, choose suitable color themes from the list for both daytime and night use, change the blue arrow to a 3D car model, show or hide 3D buildings, turn track logging on or off, and manage your Place visibility sets (which Places to show on the map).

The map is always shown on the screen so that you can see the effect when you change a setting.

![Map Settings]

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Mode 3D</td>
<td>Switch the map view between a 3D perspective view and a 2D top-down view.</td>
</tr>
<tr>
<td>Viewpoint Normal</td>
<td>Adjust the basic zoom and tilt levels to your needs. Three levels are available.</td>
</tr>
<tr>
<td>Automatic Overview</td>
<td>When selected, the map zooms out to show an overview of the surrounding area if the next route event (maneuver) is far. When you get close to the event, the normal map view returns.</td>
</tr>
<tr>
<td>Colours Auto</td>
<td>Switch between daytime and night color modes or let the software switch between the two modes automatically a few minutes before sunrise and a few minutes after sunset.</td>
</tr>
<tr>
<td>Day Map Color</td>
<td>Select the color scheme used in daytime mode.</td>
</tr>
</tbody>
</table>
Select the color scheme used in night mode.

Replace the default position marker to one of the 3D vehicle models. You can select separate icons for different vehicle types selected for route planning. Separate icons can be used for car, pedestrian and the other vehicles.

Show or suppress 3D landmarks, 3D artistic or block representations of prominent or well-known objects.

Show or suppress 3D city models, 3D artistic or block representation of full city building data containing actual building size and position on the map.

Show or suppress the 3D elevation of the surrounding terrain.

Turn on or off track log saving, that is, saving the sequence of the locations your journeys go through.

Select which Places to show on the map while navigating. Too many Places make the map crowded so it is a good idea too keep as few of them on the map as possible. For this, you have the possibility to save different Place visibility sets. You have the following possibilities:
- Tap the checkbox to show or hide the Place category.
- Tap the name of the Place category to open the list of its subcategories.
- Tap [More] to save the current Place visibility set or to load a previously saved one. Here you can also revert to the default visibility settings.

### 5.3.6 Visual guidance settings

Adjust how the software helps you navigate with different kinds of route related information on the Map screen.

The data fields in the corner of the Map screen can be customized. Tap this button and select the values you want to see. The values can be different when you navigate a route from when you are just cruising without a given destination. You can select general trip data like your current speed or the altitude, or route data related to your final destination or the next waypoint on your route.

You may need a gas station or a restaurant during your journey. This feature displays a new button on the map when you are driving on freeways. Tap this button to open a panel with the details of the next few exits or service stations. Tap any of them to display it on the map and add it as a waypoint to your route if needed.
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Types</td>
<td>Select the service types displayed for the freeway exists. Choose from the POI categories.</td>
</tr>
<tr>
<td>Signposts</td>
<td>Whenever adequate information is available, lane information similar to the real ones on road signs above the road is displayed at the top of the map. You can turn this feature on or off.</td>
</tr>
<tr>
<td>Junction View</td>
<td>If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. You can turn this feature on or let the map be displayed for the whole route.</td>
</tr>
<tr>
<td>Tunnel View</td>
<td>When entering tunnels, the surface roads and buildings can be disturbing. This feature shows a generic picture of a tunnel instead of the map. A top-down overview of the tunnel and remaining distance are also displayed.</td>
</tr>
<tr>
<td>Route Progress Bar</td>
<td>Turn on the route progress bar to see your route as a straight line on the left side of the map. The blue arrow represents your current position and moves up as you travel. Waypoints and Traffic events are also displayed on the line.</td>
</tr>
</tbody>
</table>
| Offer Congestion Detour on Highways | When you slow down while driving on a freeway, there is a chance that you are in a traffic jam so Clarion Mobile Map offers you a detour using the next exit. The message shows you distance of the exit and the difference in distance and estimated time compared to the original route. You can choose from one of the following options:  
- Tap Dismiss or just ignore the message if you want to keep the original route.  
- Tap Preview to see the overview of the original route and the detour to make the decision. You can accept the detour as offered or increase the bypassed freeway segment before accepting.  
- Turn to the suggested new direction and the route will be automatically recalculated. |
| Offer Real-time Route Alternatives | Similar to the above possibility, alternative routes can be suggested when driving on normal roads. Clarion Mobile Map will select a different turn in the upcoming intersection and offers you a different route for the next section of the route.  
Your options are the similar as above but you cannot modify the offered detour. |
| Offer Parking Around Destination | Parking at the destination may not be easy in city areas. As you approach the destination, Clarion Mobile Map can offer parking category Places near your destination. Tap the "P" button to open a top-down map with the destination and the offered parking Places. Select one and modify the route accordingly. |
| Offer Hints Upon Detour | If you leave the recommended route and suddenly exit the freeway, the application offers different alternatives near the exit like gas stations or restaurants. Also, if there are avoidable parts of the original route ahead (like a tunnel, a toll road or a ferry), you will find them in the list in case you want to bypass them with the help of Clarion Mobile Map. |
### 5.3.7 Display settings

Display related settings include menu animations, separate skins for daytime and night use and the brightness of the display.

<table>
<thead>
<tr>
<th>Menu Animation</th>
</tr>
</thead>
<tbody>
<tr>
<td>When animation is turned on, buttons on menus and keyboard screens appear in an animated way. Screen transitions are also animated.</td>
</tr>
</tbody>
</table>

### 5.3.8 Regional settings

These settings allow you to customize the application for your local language, measurement units, time and date settings and formats, as well as to choose the time zone.

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Language</td>
<td>This button displays the current written language of the user interface. By tapping the button, you can select a new language from the list of available languages. The application will restart if you change this setting; you are asked to confirm this.</td>
</tr>
<tr>
<td>Units and Formats</td>
<td>You can set the distance units to be used by the program. Clarion Mobile Map may not support all the listed units in some voice guidance languages. Select between 12 and 24 hours time display and the various international date display formats. You can also set other country specific units used to display different values in the application.</td>
</tr>
<tr>
<td>Time Zone</td>
<td>By default, time zone is taken from the map information and adjusted by your current location. Here you can set time zone and daylight saving manually.</td>
</tr>
</tbody>
</table>

### 5.3.9 Trip monitor settings

Trip logs contain useful information about your trips. Trip logs can be saved manually when you reach your destination or you can turn on the automatic saving here. You can access these logs in the Trip monitor. Trip monitor is available from the More menu.

<table>
<thead>
<tr>
<th>Enable Auto-Saving</th>
<th>Trip monitor can record statistical data of your trips. If you need these logs later, you can let the application save them automatically for you.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trip database size</td>
<td>This is not a button. This line shows the current size of the trip database, the sum of all trip and track logs saved.</td>
</tr>
<tr>
<td>Save track log</td>
<td>Track logs, the sequence of the positions given by the GPS receiver, can be saved together with trip logs. They can later be displayed on the map. You can let the application save the track log whenever it saves a trip.</td>
</tr>
</tbody>
</table>
5.3.10 Log collection settings

If you accept this when first using the application, it collects usage information and GPS logs that may be used for improving the application and the quality and coverage of maps. The data is processed anonymously; no one will be able to track any personal information. Here you can enable or disable collecting these logs.

<table>
<thead>
<tr>
<th><strong>Application Usage Information</strong></th>
<th>Anonymous statistical information on using the navigation software is collected for later development purposes. Understanding how different people use the application can help us improve the user interface and the program workflow.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GPS Tracks</strong></td>
<td>Anonymous track logs are collected for later development purposes. Your trips can help us improve the quality and coverage of maps.</td>
</tr>
</tbody>
</table>
6 Glossary

2D/3D GPS reception

The GPS receiver uses satellite signals to calculate its (your) position and needs at least four signals to give a three-dimensional position, including elevation. Because the satellites are moving and because objects can block the signals, your GPS device might not receive four signals. If three satellites are available, the receiver can calculate the horizontal GPS position but the accuracy is lower and the GPS device does not give you elevation data: only 2D reception is possible.

Active route

The currently navigated route. Whenever the destination is set, the route is active until you delete it, reach your destination or you quit Clarion Mobile Map. See also: Route.

City Center

The city/town center is not the geometric center of the city/town but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection; in larger cities, it is one of the important intersections.

Color theme

Clarion Mobile Map comes with different color themes for daytime or night use of the map and menu screens. Themes are custom graphic settings and they can have different colors for streets, blocks or surface waters in 2D and 3D modes, and they display shades or shadows in different ways in 3D mode. One daytime scheme and one night scheme is always selected for the map and for the menus. Clarion Mobile Map uses them when it switches from day to night and back.

GPS accuracy

Several factors have impact on the deviation between your real position and the one given by the GPS device. For example, signal delay in the ionosphere or reflecting objects near the GPS device have a different and varying impact on how accurately the GPS device can calculate your position.

Map

Clarion Mobile Map works with digital maps which are not simply the computerized versions of traditional paper maps. Similarly to the paper road maps, the 2D mode of digital maps show you streets, roads, and elevation is also shown by colors.

In 3D mode, you can see the altitude differences, for example valleys and mountains, elevated roads, and in selected cities 3D landmarks and 3D buildings are also displayed.
You can use digital maps interactively: you can zoom in and out (increase or decrease the scale), you can tilt them up and down, and rotate them left and right. In GPS-supported navigation, digital maps facilitate route planning.

**North-up map orientation**

In North-up mode the map is rotated so its top always faces North. This is the orientation for example in Find on Map.

**Road Safety Camera**

Special alert points for speed, red light or bus lane cameras. Different data sources are available. You can configure Clarion Mobile Map to warn you when you approach one of these cameras. Detecting the location of Road Safety Cameras is prohibited in certain countries. It is the sole responsibility of the driver to check whether this feature can be used during the trip.

The software is capable of showing and warning for more than just cameras. Various other types of proximity alert points like school zones and railroad crossings are also available.

**Route**

A sequence of route events, i.e. maneuvers (for example, turns and traffic circles) to reach the destination. The route contains one start point and one or more destinations. The start point is the current (or last known) position by default. If you need to see a future route, the start point can be replaced with any other given point.

**Track-up map orientation**

In Track-up mode the map is rotated so its top always points in the current driving direction. This is the default orientation in 3D map view mode.

**Vehimarker**

The current position is shown with a blue arrow on the map by default. The direction of the blue arrow shows the current heading. This position marker can be replaced with different 3D vehicle symbols. You can even specify different Vehimarkers for different route types (depending on which vehicle type is selected for route calculation).