In-Dash 6.5"Multimedia & Navigation System

ZX-N3000H | User Manual

Thank you for purchasing this Audio/Video and Navigation System.

This user's manual explains how to use the OzNav Audio/Video and Navigation System. Before using the product, read the contents of this user's manual carefully and use this product safely.

- The screens shown in this manual may differ with the actual screens of the product.
- The design and specification of this product may change without prior notification for product improvement.
- When transferring the vehicle to another individual, include this user's manual so that the next driver can continue its use.

Precautions for safe usage

- Driving while distracted can result in a loss of vehicle control, that may lead to an accident, severe personal injury, and death. The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any handheld devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vel1icle or which are not permissible by law should never be used during operation of the vehicle.
- Do not operate this system while driving.
- Do not disassemble, assemble, or modify this system.
- Do not watch the screen for prolonged periods of lime while driving.
- Set the volume to a level which allows the driver to be aware of external conditions.
- Do not operate this system for prolonged periods of time with the vehicle ignition in ACC. Such operations may lead to battery discharge.
- Be cautious not to spill water or introduce foreign objects into the device.
- Do not cause severe shock to the device. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch panel.
- In case of product malfunction, please contact your place of purchase or service center.
- When cleaning the touch screen, make sure to turn off the device and use a dry and smooth cloth. Never use tough materials, chemical cloths, or solvents (alcohol, ammonia, benzene, thinners, etc.) as such materials may damage the device panel or cause colour and quality deterioration.

⚠ WARNING

Driving while distracted can result in a loss of vehicle control that may lead to an accident, severe personal injury, and death. The driver's primary responsibility is in the safe and legal operation of a vehicle, and use of any handheld devices, other equipment, or vehicle systems which take the driver's eyes, attention and focus away from the safe operation of a vehicle or which are not permissible by law should never be used during operation of the vehicle.

Read the following safety precautions

Before using the product, read the contents of this user manual carefully. Please use this product safely.

* The design and specifications of this product may change without prior notification for product and service improvement. The actual features in the vehicle may differ from the illustrations. For more accurate information about the vehicle, please refer to the catalogue.

* This Audio system contains open source software, including without limitation, software distributed and/or modified under the GNU General Public license, Version 2, June 1991, and the GNU lesser General Public License, Version 2.1, February 1999.

  For additional information and to obtain related materials including without limitation, the previous referred to licenses and software, please contact us at http://www.oznav.com.au

Notations used in this User Manual

⚠ WARNING

• Failure to observe the instructions in this section could result in damage to the vehicle.

⚠ CAUTION

• Information on matters that could potentially lead to injury or vehicle damage/malfunction Information that could lead to better user safety.

i Information

• Information and tips that make using the product more convenient.

Note

• Information on specific features that facilitate proper product use and understanding of functions.

• Information on terminology used in this manual.

English

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English

Safety information

⚠ Warning

- Even when receiving route guidance from the Navigation System, please abide by traffic and road regulations in force. Following only the Navigation route guidance may lead to violations of traffic and road regulations in force and lead to traffic accidents.
- Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to a traffic accident.
- Do not operate the Navigation System while driving, e.g. entering POI (Point Of Interest)s or conducting route searches. Such actions could lead to a traffic accident. Stop the vehicle before operating the device.
- Do not disassemble, assemble or modify this system. Such actions could result in an accident, fire or electric shock.
- Be careful not to spill water or introduce foreign objects into the device. Such actions could lead to a fire or product malfunction.
- If you use phone-related functions while driving, you will find it difficult to concentrate on operating the vehicle and the current traffic conditions, so the possibility of an accident may increase. Please use phone-related functions only when stationary.
- Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction.
  Continued use in such conditions could lead to accidents (fires, electric shock) or product malfunction.
- Do not touch the antenna during thunder or lightening as this may lead to lightning-induced electric shock.
- Do not stop or park in parking-restricted areas to operate the product. Such actions could lead to traffic accidents.
- For most video modes, the display will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen. The screen will only operate when the parking brake is ON for manual transmission vehicles and when the parking brake is ON or the gear stick is in the P (PARK) position for automatic vehicles.
- Other functions may not be usable while driving. These functions operate only when the vehicle is stationary.

⚠ Caution

Pay attention to traffic conditions while driving.

- In some instances, navigation may provide guidance through restricted areas.
- Operating the device while driving could lead to accidents due to a lack of attention to external surroundings. Stop the vehicle before operating the device. In addition, the touchscreen may not work for some functions when the vehicle is in motion. The touchscreen feature will be supported once the vehicle has stopped.
- Adjust the volume to levels that allow the driver to hear sounds from outside of the vehicle. Driving in a state where external sounds cannot be heard may lead to accidents.
- Pay attention to the volume setting when turning the device on. A sudden output of extreme volume upon turning the device on could lead to hearing impairment.
  Adjust the volume to a suitable level before turning off the device.
- If you want to change the position of device installation, please enquire with your place of purchase or service maintenance center. Technical expertise is required to install or disassemble the device.
- Turn on the car ignition before using this device. Do not operate this system for long periods of time with the ignition turned off as such operation may lead to battery discharge.
- Do not subject the device to severe shock or impact. Direct pressure on the front of the monitor may cause damage to the LCD or touchscreen.
- When cleaning the device, turn off the device and use a dry, smooth cloth.
  Never use tough materials, chemical cloths or solvents (alcohol, benzene, thinners, etc.) as such materials may damage the device panel or cause Colour/quality deterioration. If you experience a product malfunction, enquire with your place of purchase or service maintenance center.
- Prevent caustic solutions such as perfume and cosmetic oil from contacting the dashboard because they may cause damage or discoloration.

Getting started

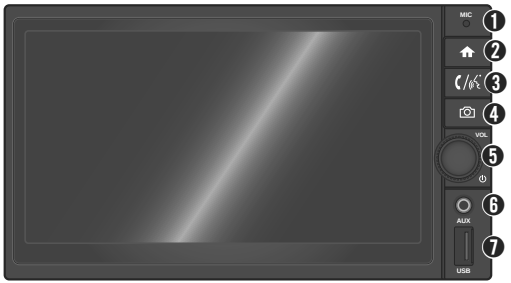
Key Product Features

This device is a Multimedia System equipped with a multi-functional player that supports RADIO (FM1/2, AM), DAB+, USB, iPod, AUX, A/V IN, and Bluetooth Audio features. The WIDE VGA LCD provides a high quality resolution while the powerful and rich sound system adds to driving enjoyment.

Display	6.5 Inch Wide TFT -LCD Display • Provides high quality video through a Wide TFT-LCD Display using an LED Back Light. • Touchscreen for maximum user convenience.
Radio	Digital Tuner Feature • Digital Tuner using PLL method that supports memory of 6 broadcast stations for each FM1, FM2 and AM mode. Radio broadcast station name • Displays broadcast station names
Multimedia Player	Support for Various Media Formats • Support for various media formats, including RADIO (FM1/2, AM), DAB+, USB, iPod, AUX, A/V IN and Bluetooth® Audio Streaming modes
Navigation	Automatic Correction for Current Location • Automatically corrects current position using map matching and GPS information.
Miscellaneous	Bluetooth® Wireless Technology • Convenient use of Bluetooth Hands-free using buttons within the steering wheel remote controller Digital Screen Control Features • Easy control of features via touchscreen options Steering Wheel Remote Controller • Control over audio features, Bluetooth via the steering wheel remote controller for maximum convenience

Overview

■ Control unit buttons and functions



❶ **MIC** (Microphone): Detects voice during Siri/Voice Recognition function or phone conversations.

❷ (Home) button: Opens Home menu screen or return to previous screen (press); turns screen off/on (press and hold).

❸ (Phone/Voice) button: Opens Phone menu screen (press); when Siri available phone is connected, launches Voice Recognition feature (press and hold).

❹ (Camera) button: Opens Camera screen.

❺ (Power) button with **VOL** (Volume) dial: Turns power on (press)/off (press and hold); mute/unmute (press); adjusts volume (rotate).

❻ AUX port: Plugs External Audio device's output by using the Stereo Audio cable.

❼ USB port: Plugs USB/iPod device or connects mobile phone using a USB cable.

Note

The actual feature in the vehicle may differ from the illustration.

■ Steering wheel remote control

This system can be operated by the signal input of the SWC key installed in the vehicle. The corresponding KEYs are as follows.

❶ **VOL +/-**: Increase/decrease the Volume (press).
❷ **MUTE**: Mute/unmute the sound (press).
❸ **SEEK +/-**: Moves Radio frequency, seeks DAB component or moves song in the playback file to the next/previous song (press); fast moves Radio frequency, seeks DAB Ensemble or fast-forward/rewind Media files (press and hold).
❹ **SOURCE**: Changes Function mode (press).
❺ **HOME**: Opens Home menu screen (press).
❻ **POWER**: Turns system on (press); turns system off/on (press and hold).
❼ **BAND**: Changes Radio band (press).
❽ **SEND**: Accepts an incoming call (press).
❾ **END**: Rejects an incoming call (press).
❿ **VOICE**: Launches Voice recognition feature (press: when Google Voice or Siri available phone is connected.)

Note

- You can map the SWC keys by referring to "**Setting Other**" on page 47.
- USB, iPod, AUX, Bluetooth Audio, Android Auto and CarPlay modes are not available if there is no device connected.

■ IR remote control (if equipped)

This system can be operated by the signal input of the IR remote control installed in the vehicle. The corresponding KEYs are as follows.

❶ **SET**: Opens Home menu screen (press).
❷ **MODE**: Changes function mode (press).
❸ ∧/∨: Increase/decrease the Volume (press or press and hold).
❹ </>: Changes Preset Stations to up/down, skips playback to previous/next media file (press); fast-forward/rewind Media files (press and hold).
❺ ▶II: Play/pause Media file
❻ ⏻: Turns system on (press); turns system off/on (press and hold).
❼ **BAND**: Changes Radio band (press).

Note

USB, iPod, AUX, Bluetooth Audio, Android Auto and CarPlay modes are not available if there is no device connected.

Starting the System for the First Time

■ Turning the System On/Off

Press the smart ignition [**ENGINE START/STOP**] button or place the ignition switch in the ACC or ON position.

This system will turn on and the following screen will appear.

Tap **Agree** to start the system.

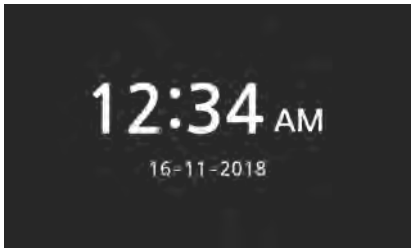
- To agree automatically, activate (☑) the checkbox.

The previously selected radio station or media file is played.

Note

- You cannot operate the system while it is booting up.

To turn the system off (standby mode), press and hold ⏻ (Power) button on the system.



When the system is turned off, the clock and date screen appears. This means that the device is in standby mode.

Note

- You can change the Power off displaying mode by referring to "**Setting the Power-off display type**" on page 43.

To return using the system's functions, press ⏻ (Power) button on the system.

Note

- This system also turns on automatically when a device is connected to the USB or AUX port.
- If you turn off the system during a phone call using the Hands-free feature, the call will automatically switch to your mobile phone.

■ Adjust the Volume

Rotate the **VOL** (Volume) dial on the system, press the **VOL +/–** buttons on the steering wheel control or ∧/∨ buttons on the IR remote control to increase or decrease the volume.

When the volume is adjusted, the current mode name and volume level bar will appear as shown below.

You can adjust the volume level individually for each mode. The volume level range is as follows;

- Audio: 0 ~ 30
- Navi/Ringtone/RearCam Mic: 0 ~ 15
- Phone: 1 ~ 15 • Beep: 0 ~ 4

■ Muting the sound quickly

Press ⏻ (Power) button on the system or the **MUTE** button on the steering wheel to activate the mute function.

When the mute function is activated, the mute (🔇) icon will appear on status bar.

To deactivate the mute function, press ⏻ (Power) button or rotate **VOL** dial on the system, or press **MUTE** button on the steering wheel.

■ Restrictions on Features for Safety Measures

Several features are limited while driving.

The restriction screen will disappear when shifting gears into P or putting the parking brake on.

■ Using the Multi View Camera

When the vehicle speed is less than 30 km/h, press (Camera) button on the system to open the Multi View Camera screen.

Display the camera images according to each camera mode.

Each camera mode control is shown below.

- **All**: Display all directions camera images through screen division; expands a specific screen to full screen (tap a specific screen); returns to All mode screen (tap full screen).
- **Front/Left/Right**: Displays images in the corresponding direction in full screen; switches to between All and single view (tap screen).

To return to previous screen, press (Camera) button on the system.

Note

- You can set the Camera features by referring to "**Setting Other**" on page 48.

■ Using the Rear View Camera

When power is turned on and the Reverse gear is selected, the Rear View Camera or Parking Assist System will display the area behind the vehicle on the screen.

<In case of Parking Assist System is supported with a Rear View Camera>

<In case of only Rear View Camera is equipped>

The Rear View Camera display is not a substitute for proper and safe driving procedures. Always drive safely and use caution when backing up. The rearview camera display may not detect all objects behind the vehicle.

Caution

- The Rear View Camera's purpose is to prevent accidents or injuries. Do not use this function for entertainment purpose.
- Objects in the Rear View Camera's images may be closer or more distant than they actually appear.

Note

- You can set the Rear View Camera features by referring to "**Setting Other**" on page 48.
- The edges of images may differ slightly depending on whether full-screen images are displayed when reversing.

<In case of only Rear Parking Assist System is supported without a Rear View Camera>

■ Turn the Display Off/On

Press and hold (Home) button on the system to turn the LCD screen off.

To turn the LCD screen on, tap the LCD screen or press any button on the system/steering wheel control.

On-Screen Touch Controls

Learn how to touch the screen to operate the system.

[**Select**]

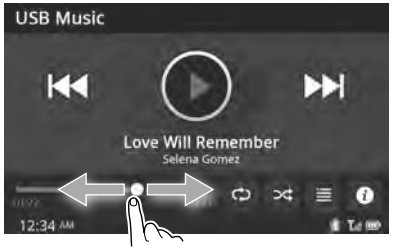
Tap lightly on a menu or item to select it.

Note

- The system will not recognize your touch if you wear a glove or other non-conductive material. Touch the screen using your finger, an electrostatic touchscreen glove or a stylus pen.

[Drag & Drop]

Select a menu or item and drag and drop it where you want to place it.



Drag or touch the slider along the play bar in the music screens to jump to the point that you want to play from. However, the Bluetooth Audio player does not support drag function.

[Press and Hold]

Pressing the ⏮ and ⏭ buttons in the music or video player will fast forward/ rewind the music or video.

Note

- Touch gesture for Phone Projection such as double-tapping, and swiping are not available with the built-in applications.

[Swipe (Quick Scrolling)]

Quickly moves up and down in the list.

Note

- Moving the list when there are many items will display a handler to the right of the display. You can easily move many items at a time using the handler

Using the Home screen

■ Controls Menu configuration for the Home screen

To open Home screen, tap (Home) button on the system.

The following screen will be displayed. Select the desired menu from this screen.

Note

Media, Phone, Android and Auto CarPlay function modes are not available if there is no device connected.

❶ Title bar: Shows current menu title

❷ Menu: Opens each Function mode screen (tab) as shown below.

<Page 1: swipe to left>

- **Radio**: Opens Radio screen.
- **Media**: Opens Media screen.
- **Phone**: Opens Phone screen.
- **DAB+**: Opens DAB+ screen.
- **Navigation**: Opens Navigation System mode screen.
- **TPMS**: Opens Tire Pressure Monitoring System mode screen.

<Page 2: swipe to right>

- **Android Auto**: Opens Android Auto screen.
- **CarPlay**: Opens CarPlay screen.
- **Settings**: Opens Settings screen.

❸ Status bar: Shows the playback and system condition with clock shown below.

: Bluetooth connection
: Network condition
: Battery condition
: Tire Pressure Monitoring System condition

Radio/DAB

Radio

■ Using Radio screen

You can access the radio player by selecting the **Radio** on the Home screen.

- By using the IR Remote Control, press the **MODE** button repeatedly until the desired Radio band screen appears.

Shows currently operating radio station information (Bandwidth, Category/Program Service name for RBDS, frequency) and controls.

❶ ⏮/⏭: Changes the frequency manually (tab); automatically seeks the frequency to find stations with superior reception (tap and hold).

❷ **Band**: Changes Radio band (tap: FM1 > FM2 > AM > FM1...).

❸ **Auto Store**: Opens Auto store screen (tap), then automatically stores frequencies with superior reception to Preset shortcut.

❹ Preset station shortcut: Shows stored Presets for user selection.
- Recalls indicated frequency (tap); stores current station to Preset (tap and hold).

i Up to 6 Preset frequencies can be stored for each mode (FM1, FM2, and AM).

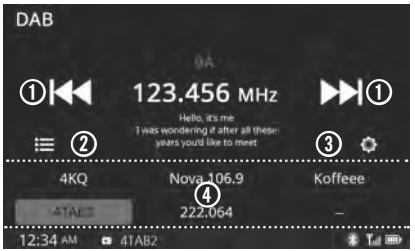
DAB

■ Using DAB screen

You can access the DAB (Digital Audio Broadcasting) player by selecting **DAB+** on the Home screen.

- By using the IR Remote Control, press **MODE** button repeatedly until the desired DAB screen appears.

Shows currently operating DAB (Digital Audio Broadcasting) station information and controls.



❶ ⏮/⏭: Seeks previous/next Component (tab); automatically searches the frequency to find Ensemble (tap and hold).

❷ (List): Opens DAB Category/Station screen (tap).

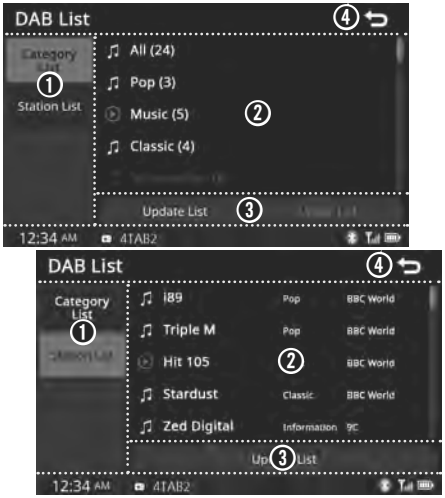
❸ (Settings): Opens DAB Settings screen (tap).

❹ Preset shortcut: Shows stored Presets for user selection.
- Recalls indicated frequency (tap); stores current station to Preset (tap and hold).

i Up to 6 Preset stations can be stored.

■ Using DAB Category/Station list screen

Tap **DAB List** button on DAB playing screen. Shows DAB Category/Station list and controls.



❶ List menu tab: Selects type of DAB station list (tab).
- **Category List**: Opens DAB Category list (tap) for searching stations by category type.
- **Station List**: Opens DAB station list screen (tap).

❷ List screen: Shows DAB Category or Station list; searches stations by category (tap); selects a DAB station; scrolls lists (swipe upwards/downwards).
- ⦿: indicates currently playing station.

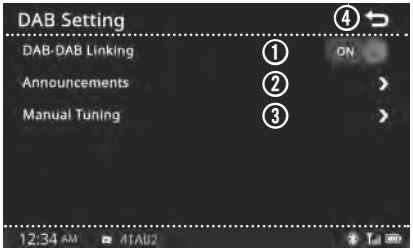
❸ List control:
- **Update List**: Updates list (tap).
- **Upper List**: Moves upper list screen (tap).

❹ ⮌ (back): Returns to previous screen (tap).

■ Setting DAB features

Tap **DAB Setting** button on DAB playing screen.

Shows DAB Settings menu and controls.

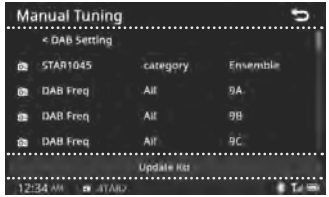


❶ **DAB-DAB Linking**: Activates (ON) / deactivates (OFF) DAB-DAB Linking feature (tap to ON/OFF toggle).

❷ **Announcements >**: Opens Announcements list screen (tap), then activates(ON)/deactivates (OFF) Announcements type (tap to ON/OFF toggle); scrolls lists (swipe upwards/downwards).

- ⮌ (back): Returns to previous screen (tap).

❸ **Manual Tuning >**: Opens Manual Tuning screen (tap), then select desired station (tap a list); scrolls lists (swipe upwards/downwards).



- **Update list**: replaces the station list with newly updated list.
- ⮌ (back): Returns to previous screen (tap).

❹ ⮌ (back): Returns to previous screen (tap).

Media player

USB Media

■ Before Playing a USB Media

Connect the USB device after turning on the engine. The USB device may become damaged if it is already connected when the ignition is turned on.

- Files that are not standard format Music/ Image/Video files will not be played.
- Be careful of static electricity when connecting/disconnecting external USB devices.
- Encoded MP3/Photo/Video players will not be recognized when connected as an external device.
- When connecting an external USB device, the device may not properly recognize that the USB is in certain states.
- Only products formatted with byte/sectors under 64 kbps will be recognized.
- USB devices, formatted to the FAT32 file system, are recommended. File systems other than FAT32 are not supported.
- Some USB devices may not be supported due to compatibility issues.
- Take care that the USB connector does not come in contact with body parts or objects.
- Repeated connecting/disconnecting of USB devices within short periods of time may result in product malfunction.
- Be sure to connect/disconnect external USB devices with the audio power turned off.
- The amount of time required to recognize the external USB device may differ depending on the type, size or file formats stored on the USB. Any differences in the time required are not indicative of malfunction.
- The use of USB devices for purposes other than playing music, image and video files is prohibited.
- Do not use the USB I/F to charge batteries or USB accessories that generate heat. This may lead to poor performance or damage to the device.
- The device may not recognize the USB device if separately purchased USB hubs and extension cables are being used. Connect the USB directly to the multimedia terminal of the vehicle.
- When using mass storage USB devices with separate logical drives, only files saved to the root drive can be played.
- When application programs are installed on specific USBs, files may not play properly.
- The device may not operate normally if MP3 players, mobile phones, digital cameras or other electronic devices (USB devices not recognized as portable disk drives) are connected to the device.
- Charging through the USB may not work for some mobile devices.
- The device may not support normal operation when using a USB memory type other than Metal Cover Type USB Memory.
- The device may not support normal operation when using formats such as HDD, CF or SD memory.
- When playing iPods, please use a dedicated iPod car cable.
- Normal operation cannot be guaranteed when other cables are used.
- The device will not support files locked by DRM (Digital Rights Management).
- USB memory sticks used by connecting an adaptor (SD or CF) may not be properly recognized.
- Only use plug type connector products, as shown in the figure below.

Product Name	Manufacturer
XTICK	LG
BMK	BMK Technology
SKY-DRV	Sky Digital
TRANSCEND JetFiash	Transcend
SanDisk Cruzer	San Disk
Micro ZyRUS	ZyRUS
NEXTIK	Digiworks

Note

- Problems that occur through use of USB devices not listed within the above table are not covered by the product warranty.

■ Using Media screen

You can access the Media play menu by selecting **Media** on the Home screen.

• By using the IR Remote Control, press **MODE** button repeatedly until the desired Media Playing screen appears.

❶ Title bar: Shows current menu title

❷ Menu: Opens each Player screen (tab) as shown below.

<Page 1: swipe to left>

• **USB Music**: Plays Music from an external USB device.

• **iPod**: When iOS device is connected to the USB port for iPod feature, the iPod music player feature opens. Plays music from an iPod connected to this system.

• **AUX**: Plays an external device's output Audio signal on this system.

• **Bluetooth Audio**: Plays audio from a Bluetooth-enabled device paired with this system.

<Page 2: swipe to right>

• **USB Video**: Plays Video from an external USB device (tap)

• **USB Image**: Plays Image from an external USB device (tap)

• **AV In**: Plays an external device's output Audio or Video signal on this system.

❸ Status bar: Shows the playback and system condition with clock shown below.

: Bluetooth connection
: Network condition
: Battery condition
: Tire Pressure Monitoring System condition

USB music

■ Supported Music Files Specifications

MP3 File Specification	MPEG1 AUDIO LAYER 3
Recommended Bit Rates and Sampling Frequency	Acceptable sampling frequency: 32, 44.1, 48 (kHz)
	Acceptable bit rate: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (kbps)
	96,128, 192 kbps fixed bit rate/44.1 kHz
ID3 Tag	Supports ID3v1.0 and ID3v1.1, ID3v2.2, ID3v2.3, ID3v2.4 ID3 tags
Detailed Specifications	• Maximum directory layers: 20 layers • Maximum length of folder name/file name: 255 bytes • Supported characters for folder name/file name: Alphanumeric characters, Korean standard character set 2,350 characters, Simplified Chinese 4,888 characters • Maximum number of folders which can be stored onto one USB: 2,000 folders (including ROOT) • Maximum number of files which can be stored onto one USB: 8,000

Note

• The sound quality of MP3 files that use bitrates exceeding 192 kbps cannot be

guaranteed. When using files without fixed bit rates, some features (Fast-Forward/ Rewind features) may not properly operate.

■ Using USB Music player screen

Connect the USB device to the USB port. USB Music playback starts automatically after recognizing the data of the USB memory.

When the USB device is already connected, press **Home** button, then tap **Media** > **USB Music**.

❶ ►/II: Pause/resume playback (tap to toggle)

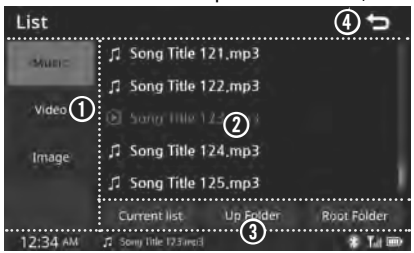
❷ ⏮ / ⏭: Skips to previous/next file (tap); rewinds/fast-forwards a file (tap and hold).

❸ Song/Playing Information: Shows album cover image, artist/song/album title and file name.

❹ Controls
- Progress bar: Shows current play time/ total play time. Directly moves to playing position for rewind or fast-forward a track (tap or drag).
- 🔁: Sets Repeat mode (tap) as below;
  🔂: Repeats all files on a device
  🔂: Repeats the current file
  🔁: Repeats all files in the current folder
- 🔀: Changes Shuffle mode (tap) as below;
  🔀: Plays all files in random order repeatedly
  🔀: Plays all files within the current folder in random order repeatedly
- ☰: Opens Music File List screen (tap)
- ⓘ: Shows more information of file/track (tap)

■ Using USB Music file list screen

Tap ☰ (List) form USB Music player screen, and select the desired option as follows;



❶ List menu tab: Selects each type of USB file list (tab).
- **Music**: Opens Music file list in USB (tap).
- **Video**: Opens Video file list in USB (tap).
- **Image**: Opens Image file list in USB (tap)

❷ List screen: Shows file list; selects a file to play (tap); scrolls lists (swipe upwards/ downwards).
- ⓟ: Indicates currently playing file.

❸ List control:
- **Current List**: Returns to current playlist. (tap).
- **Up Folder**: Moves to parent folder (tap).
- **Root Folder**: Moves root folder (tap).

❹ ⮌: Returns to previous screen (tap).

USB Video

■ Using USB Video player screen

Connect the USB device to the USB port. USB Video playback starts automatically after recognizing the data of the USB memory.

When the USB device is already connected, press **Home** button, then tap **Media** > **USB Video**.

To show the control panel screen, tap the Playing screen, and select the desired option as follows;

❶ ►/II: Pause/resume playback (tap to toggle)

❷ ⏮ / ⏭: Skips to previous/next file (tap); rewinds/fast-forwards a file (tap and hold).

❸ Video screen: Shows title, playback mode and file name.

❹ Controls: Hide/unhide Control panel on the video screen (tap).

- Progress bar: Shows current play time/ total play time. Directly moves to playing position for rewind or fast-forward a track (tap or drag).
- 🔁: Sets Repeat mode (tap) as below;
  🔂: Repeats all files on a device
  🔂: Repeats the current file
  🔁: Repeats all files in the current folder
- 💬: Activates/deactivates subtitles (tap).
- ☰: Opens Video File List screen (tap)
- ⛶: Sets video screen ratio (tap) as below;
  ⛶: Resize video width and height to fit to screen regardless of aspect ratio
  ⛶: Trim video edge to fit a aspect ratio
  1:1: Display video to fit a aspect ratio

Note

- While driving, you can not watch the video.

■ Using USB Video list screen

Tap ☰ form USB Video player screen, and select the desired option as follows;

❶ List menu tab: Selects each type of USB file list (tab).

- **Music**: Opens Music file list in USB (tap).
- **Video**: Opens Video file list in USB (tap).
- **Image**: Opens Image file list in USB (tap)

❷ List screen: Shows file list; selects a file to play (tap); scrolls lists (swipe upwards/ downwards).

- ▶: Indicates currently playing file.

❸ List controls

- **Current List**: Returns to current playlist. (tap).
- **Up Folder**: Moves to parent folder (tap).
- **Root Folder**: Moves root folder (tap).

❹ ⮌: Returns to previous screen (tap).

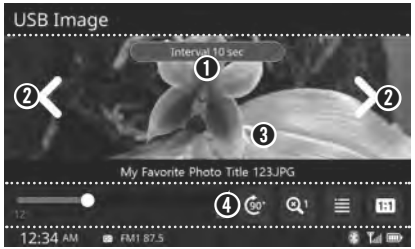
USB Image

■ Using USB Image player screen

Connect the USB device to the USB port. USB Video playback starts automatically after recognizing the data of the USB memory.

When the USB device is already connected, press **Home** button, then tap **Media** > **USB Image** in order.

To show the control panel screen, tap the Playing screen, and select the desired option as follows;



❶ Slideshow interval: Sets time interval between slides (tap)

❷ < / >: Skips to previous/next file (tap).

❸ Image screen: Shows images with title; hide/unhide Control panel on the image screen (tap).

❹ Controls: Hide/unhide Control panel on the video screen (tap).

- Preview progress bar: Shows current play file number/total file number. Directly moves to playing file (tap or drag > select preview image).
- : Rotates image in a counterclockwise direction (tap).
- : Sets the zoom ratio (tap).
- : Opens Image File List screen (tap)•
: Sets image screen ratio (tap) as below;
: Resize image width and height to fit to screen regardless of aspect ratio
: Trim image edge to fit a aspect ratio
: Display image to fit a aspect ratio

Note

- While driving, you can not watch the image.

■ Using USB Image preview screen

Tap or drag **Scroll bar** form USB Image player screen, and select the desired option as follows;

❶ Preview progress bar: Shows Preview progress bar with current play file number/ total file number. Directly moves to playing file (tap or drag > select preview image).

❷ Preview image screen: Shows preview image thumbnails with file name; scrolls thumbnails (swipe left/right); selects a file to play (tap)

■ Using USB Image list screen

Tap form USB Image player screen, and select the desired option as follows;

❶ List menu tab: Selects each type of USB file list (tab).

- **Music**: Opens Music file list in USB (tap).
- **Video**: Opens Video file list in USB (tap).
- **Image**: Opens Image file list in USB (tap)

❷ List screen: Shows file list; selects a file to play (tap); scrolls lists (swipe upwards/ downwards).

- : Indicates currently playing file.

❸ List control:

- **Current List**: Returns to current playlist. (tap).
- **Up Folder**: Moves to parent folder (tap).
- **Root Folder**: Moves Root folder (tap).

❹ : Returns to previous screen (tap).

iPod

■ Using iPod device

- iPod is a registered trademark of Apple Inc.
- iPod mode will not operate if the connected iPod cannot be recognized due to operation of unsupported versions that do not support related protocols, iPod abnormalities or iPod device defects. Some iPods with unsupported communication protocols may not properly operate on this system.
- For fifth generation iPod Nano devices, the iPod may not be recognized when the battery level is low. Please charge the iPod.
- Search/play orders shown on the iPod device may differ from those displayed on this system.
- If the iPod malfunctions due to an iPod device defect, reset the iPod and try again. To learn more, refer to your iPod manual.
- If you repeatedly connect and disconnect your iPod/iPhone to this system using a USB cable over a short period of time, it may cause a malfunction.
- The recognition delay for an iPod/iPhone may vary depending on device type, firmware version and iOS version.
- For some iPod Touch and iPhone devices, connecting Bluetooth while the iPod is operating may result in an interruption to the iPod audio output. This may occur when these devices are connected via Bluetooth since the sound source is changed from the Dock Connector (USB connector cable) to Bluetooth.
- To prevent this, Bluetooth Audio function in this system is limited if an iPod/iPhone is connected to the system via cable and Bluetooth simultaneously. To listen to iPod audio, either use the iPod menu if connected via USB or Bluetooth Audio if connected via Bluetooth.
- To listen to iPod audio, reconnect the USB cable or change the audio output settings on the iPod/iPhone to Dock.
- In order to use the iPod while operating the keys, you must use a dedicated iPod cable (the cable that was supplied when you purchased the iPod/iPhone product).
  * In the ACC ON state, connecting the iPod via the iPod cable (the cable that was supplied when you purchased the iPod/iPhone product) will charge the iPod through the head unit.
  * The use of genuine iPod cables supplied by Apple is recommended. (The use of other products may result in noise or abnormal operation.)
- When connecting with the iPod cable, be sure to fully insert the jack to prevent communication interference. If the iPod is connected to the vehicle while it is playing, a high pitch tone may sound for about 1 ~ 2 seconds immediately after connection. If possible, connect the iPod to the vehicle with the iPod play stopped/paused.
- On iPhones, streaming audio and iPod control may occasionally conflict. If problems persist, remove the iPhone and connect again.
- On Apple iOS 6.0 or later versions, Podcast and Audiobook media files are designed to be played using the Podcast and iBooks applications specifically designed for Apple products. If the Apple device does not have Podcast and Audiobook lists, the playlist may not be displayed and played in this system iPod mode.
- If the Apple Podcasts and iBooks apps are not installed on the Apple device, but the Apple device provides the Podcast and Audiobook lists, you can play files in other categories in iPod mode.
- While using a connected iPhone/iPod Touch device, it may not operate normally if the user changes any functions on the device.
- When calling with an iPhone connection, music may stop playing due to an Apple device feature. If sound does not resume after the call has been terminated, check the device status.
- If lots of songs have the same information, skipping may occur when previous/next song is chosen, due to an Apple device feature. Other problems may occur depending on device type or iOS version.
- If some songs have the same information, it may occur difference of playing songs between this system and Apple device. Reset the device or delete the duplicate songs on the Apple device using iTunes.
- If you pause, repeat, shuffle or seek songs when the remaining play time is less than 3 seconds, there may be a difference between the song playing on this system and on the Apple device. Access the iPod music from another mode or pause the song and then select play again on the Apple device.
- If the iPhone/iPod Touch supports Bluetooth, the Apple device will not be able to use the

Bluetooth function if the device is connected through both the USB port and via Bluetooth. Disconnect the USB connection then use Bluetooth Audio.

- If iPod/iPhone connected to this system through both USB and AUX. iPod/iPhone keeps output sound via AUX, thus it may occur sound will not output in iPod mode.
- If the AUX cable is connected to the iPod/iPhone but not to this system, sound may not be output in iPod mode due to an iPod/iPhone feature. This problem may occur in particular if you use the AUX cable for pictures.
- Disconnect the AUX cable from the iPod/iPhone first, then connect to this system via USB. Or change settings to "Dock" in i Pod/i Phone.
- If you connect to this system while the Podcast or iTunes is downloading music to the iPod/iPhone, you may experience problems when you select a song in the list. Reconnect the iPod/iPhone to this system when download is complete or the file has been deleted.
- If you connect to this system while it is syncing, you may experience problems. Try to use the iPod/iPhone connection after sync is complete. To learn more, refer to your iPod manual.
- iPhone and iPod Touch devices are guaranteed to work normally on iOS 9.3.2 or below. However, they may not work normally on future iOS versions as their operations have not yet been tested.
- We recommend that you use the latest firmware on your Apple device. Problems may occur with outdated firmware.

Type	1G	2G	3G	4G	5G	6G	6.5G	7G
iPod Mini	Not Supported							
iPod Shuffle	Not Supported							
iPod Nano	○	○	○	○	○	○	Not released	○
iPod Touch	○ (iOS 1.1 not supported)	○	○	○	○	○	Not released	
iPad iPad Mini	○ (Unable to charge, Not verified, Normal working not guaranteed)							
iPod Classic	Digiworks				○ (iPod with Video)	○ (iPod Classic)	○ (iPod Classic)	Not released

Type	3G	4 / 4s	5 / 5c / 5s	6 (Plus)	6s (Plus)	SE	7 (Plus)	8 (Plus)	X / XR / XS (Max)
iPhone	Not verified, Normal working not guaranteed	○	○	○	○	○	○	○	○

■ Using iPod player screen

Connect the iPod to the USB port. iPod playback starts automatically after recognizing the data of the iPod.

When the iPod is already connected, press **Home** button, then tap **Media** > **iPod**.

❶ ▶/II: Pauses/resumes playback (tap to toggle)

❷ ⏮ / ⏭: Skips to previous/next file (tap); rewinds/fast-forwards a track (tap and hold).

❸ Song/Playing Information: Shows album cover image, artist/song/album title and file number.

❹ Controls

- Progress bar: Shows current play time/ total play time. Directly moves to playing position for rewind or fast-forward a track (tap or drag).
- 🔁: Sets Repeat mode (tap) as below;
  - 🔁: Repeats all files on a device
  - 🔂: Repeats the current file
  - 🔁: Repeats all files in the current folder
- 🔀: Changes Shuffle mode (tap) as below;
  - 🔀: Plays all files in random order repeatedly
  - 🔀: Plays all files within the current folder in random order repeatedly
- ☰: Opens iPod File List screen (tap)
- ⓘ: Shows more information of file/track (tap)

■ Using iPod list screen

Tap ☰ form iPod player screen, and select the desired option as follows;

❶ List menu tab: Selects each type of USB file list (tab).

- **Music**: Opens Music file list in USB (tap).

❷ Category/File list: Search songs by list type (tap); selects a file/folder (tap); scrolls the lists (swipe upwards/downwards).

- **Playlist/Artist/Song/Album/Genre/ tracks**: shows the Quick scroll bar, scrolls the lists (swipe upwards/downwards)
- ▶: indicates currently playing file.

❸ List control:

- **Up Folder**: Moves to parent folder (tap).
- **Root Folder**: Moves root folder (tap).

❹ ⮌: Returns to previous screen (tap).

AUX

■ Connecting External devices

Connect an external Audio device cable to the AUX input to automatically switch to AUX mode. Unplug the cable to automatically switch back to the previous mode.

AUX mode is available only when an external Audio device (Voice Recorder, MP3 player etc.) is connected.

The AUX input volume can be adjusted separately from other functional modes.

Note

- If only a cable is connected to the AUX without an external Audio device, the mode will be changed to AUX, but noise may occur. When an external Audio device is not being used, remove the connector jack.
- When the external Audio device power is connected to the power jack, playing the external Audio device may output noise. In such cases, disconnect the power connection before use.

Bluetooth Audio

This section explains how to use the Bluetooth audio player.

This unit supports the A2DP (Advanced Audio Distribution Profile). If your Bluetooth mobile phone or music player supports this profile, then music can be played through this unit and the car's speakers.

Also, this system supports the AVRCP (Audio Video Remote Control Profile). If your Bluetooth mobile phone or music player supports this profile, then it is possible to advance to the next track or replay previous tracks by using the buttons on this system or steering wheel (if fitted).

■ Pairing and connecting with a Bluetooth device

For information on how to pair and connect this system with a Bluetooth device, refer to "***Bluetooth Connection***" on page 23.

■ Using the Bluetooth Audio player screen

When the Bluetooth device is already connected, press **Home** button, then tap **Media** > **Bluetooth Audio**.

❶ ►/II: Pauses/resumes playback (tap to toggle)

❷ I◄◄ / ►►I: Skips to previous/next file (tap); rewinds/fast-forwards a track (tap and hold).

❸ Song/Playing Information: Shows song/artist name.

❹ Bluetooth Setup: Opens Bluetooth setting screen (tap).

Note

- If the music on the mobile phone is not played after changing to audio streaming mode, press the Play button. Check if music is playing on the Bluetooth device after changing to audio streaming mode. Audio streaming may not be supported with some mobile phones.
- Artist into and Title may not be supported on the mobile phone.
- While in use of other functions after connecting your mobile phone through a USB cable, the Bluetooth audio is disabled.

■ Setting the Bluetooth

In Bluetooth Audio player screen, select **Bluetooth Setup**.

For information on how to pair and connect this system with a Bluetooth device, refer to "***Bluetooth Connection***" on page 23.

A/V IN

■ Connecting External A/V devices

Connect an external A/V device cable to the AUX input to automatically switch to A/V IN mode. Unplug the cable to automatically switch back to the previous mode.

A/V IN mode is available only when an external A/V device (Laptop, MP4 player etc.) is connected.

The A/V input volume can be adjusted separately from other functional modes.

Note

- While driving, you can not watch the video.
- If only a cable is connected to the AUX without an external A/V device, the mode will be changed to A/V IN, but noise may occur. When an external A/V device is not being used, remove the connector jack.
- When the external A/V device power is connected to the power jack, playing the external A/V device may output noise. In such cases, disconnect the power connection before use.

Phone Connectivity

Before Using Bluetooth Hands-free

■ What is Bluetooth® Wireless Technology?

- Bluetooth® Wireless Technology refers to a short-distance wireless networking technology that uses a 2.45 GHz frequency to connect various devices within a certain distance.
- Supported within PCs, external devices, Bluetooth phones, various electronic devices and automotive environments, Bluetooth Wireless Technology is transmitted at high speeds without having to use a connector cable.
- Bluetooth Hands-free refers to a device that allows the user to conveniently make phone calls with Bluetooth mobile phones via this system.
- The Bluetooth Hands-free feature may not be supported on some mobile phones.

■ Precautions for Safe Driving

- Bluetooth Hands-free is a feature that enables drivers to practice safe driving. Connecting the head unit with a Bluetooth phone allows the user to conveniently make calls, receive calls and manage the phone book. Before using Bluetooth Wireless Technology, carefully read the contents of this user manual.
- Excessive use or operation while driving may lead to negligent driving practices and may cause accidents. Do not operate the device excessively while driving.
- Viewing the screen for prolonged periods of time is dangerous and may lead to accidents. When driving, view the screen only for short periods of time.

■ CAUTIONS for Connecting a Bluetooth Phone

- Before connecting the head unit to the mobile phone, check that the mobile phone supports Bluetooth features.
- Even if the phone supports Bluetooth Wireless Technology, the phone will not be connected if Bluetooth is turned off. Turn on Bluetooth prior to connecting to the head unit.
- The Bluetooth phone will be connected automatically when the ignition is turned on, making it unnecessary to have to connect the phone with the head unit every time.
- If you do not want automatic connection with your Bluetooth device, turn the Bluetooth feature off on the Bluetooth device.
- Park the vehicle when connecting this system to the mobile phone.
- Bluetooth connection may be intermittently disconnected on some mobile phones. Follow these steps to try again.

1 Turn the Bluetooth function within the mobile phone OFF/ON and try again.

2 Turn the mobile phone power OFF > ON and try again.

3 Completely remove the mobile phone battery, reboot and try again.

4 Reboot this system and try again.

5 Delete all paired devices from both phone and this system and try again

- The Hands-free call volume and quality may differ depending on the mobile phone.
- Pairing Bluetooth devices and use of other Bluetooth features are not supported when the vehicle is in motion. For safety, please first stop your vehicle.
- When downloading contacts, anything not described within this user manual may be related to the mobile device. In this case, please enquire with the mobile phone manufacturer.

Bluetooth Connection

■ Pairing a New Device

Before you can use the Bluetooth feature, you must first pair/connect your mobile phone to your car.

- Up to 5 Bluetooth devices can be paired.
- Only one Bluetooth device can be connected at a time.

Pairing a New Device by Selecting Phone

Press (Phone/Voice) button or tap **Phone** on the **Home** menu screen to enter the phone screen.

Tap **Yes**.

- If the pop-up message does not appear, select **Home** > **Settings** > **Connectivity** > **Bluetooth Connection**.

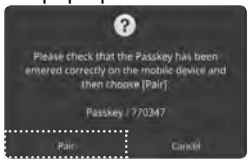
To discover and connect to a Bluetooth device:

Tap **Discoverable**.

This system can be detected as "**TL-01**" by other devices for two minutes.

Within two minutes, pair and connect the Bluetooth device by following the device's specific procedures.

Pair your vehicle after your mobile phone detects the Bluetooth device. > Check the **Passkey**, then select **Accept** the authorization pop-up.



Check the Passkey is entered correctly on the Bluetooth phone, then select **Pair** to connect your Bluetooth.

To add and connect to a Bluetooth device:

Select **Home** > **Settings** > **Connectivity** > **Bluetooth Connection** **Add Device**.

- The Device Name and Passkey above are an example. Check the actual information on the product.

From the searched device list, select your phone. > Pair your car after your mobile phone detects the Bluetooth device.

Check the Passkey is entered correctly on the Bluetooth phone, then select **Pair** to connect your Bluetooth.

■ Connecting Bluetooth Devices

Connect the Bluetooth devices that you add.

Connecting Devices by Selecting Phone/Call

Select **Home** > **Settings** > **Connectivity** > **Bluetooth Connection**.

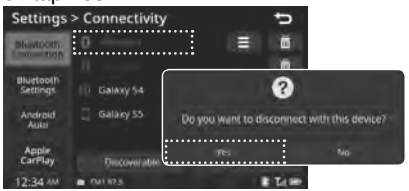
Select the name of the device to connect, then tap **Yes**.

■ Disconnecting Bluetooth Devices

Disconnect Bluetooth devices that are connected.

Select **Home** > **Settings** > **Connectivity** > **Bluetooth Connection**.

Select the name of the device to disconnect, then tap **Yes**.



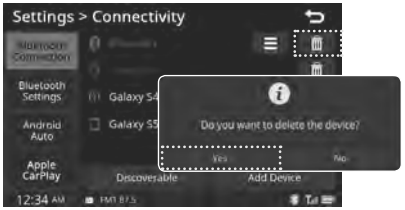
■ Deleting Bluetooth Devices

Delete Bluetooth devices that you have added. Note that deleting a Bluetooth device will delete all Call History and Contact Into downloaded as well.

Select **Home** > **Settings** > **Connectivity** > **Bluetooth Connection**.

Select the name of the device to disconnect.

Select the device name to delete, then tap (Delete) > **Yes**.



Bluetooth Phone

■ Make a call by using dialling

Press (Phone/Voice) button or tap **Phone** on the **Home** menu screen to open the phone screen.

Shows the current phone status in the bottom right of the screen.

❶ Phone screen: Shows connected mobile Phone name with call controls.
- (Delete): Deletes an entered digits or characters (tap); clears all digits or characters (tap and hold).
- **Call**: Makes a call after you dial a number (tap).
- **BT Setup**: Opens Bluetooth Settings screen (tap), refer to "***Settings > Connectivity > Setting the Bluetooth Connection***" section on 44 page.
- **Contacts**: Opens Contacts screen (tap).

❷ **Keypad**: Enters a number for dial (tap); enters international prefix (tap and hold "0").

❸ **Phone status**: Shows status of the connected your phone.
- : Bluetooth connection

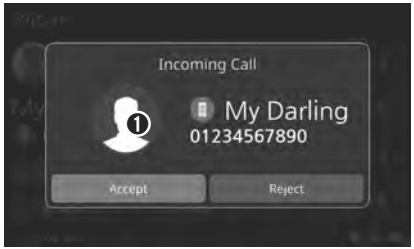
- : Signal strength
- : Remaining battery power
  : Tire Pressure Monitoring System condition

Note

- The battery level icon and the call signal strength indicator may not be supported on some Bluetooth devices.
- The battery level may differ from the actual level remaining.

■ Accepting/Rejecting a incoming call

If there is an incoming call after you connected Bluetooth phone, a pop-up message with caller ID appears.

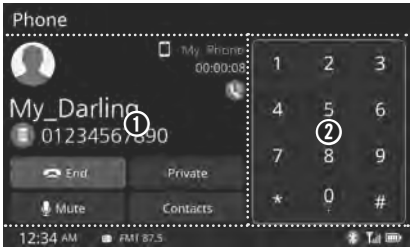


Incoming Call controls with caller ID: **Accept** or **Reject** a incoming call (tap).

- On some mobile phones, the caller's number may not be displayed, and the Ignore feature may not be supported.

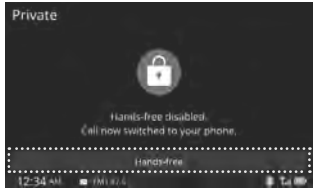
■ Using menus on the call

When making a call, you can use the following menu items.



❶ Phone screen: Shows connected mobile Phone name, caller ID with call controls.

- **End**: Ends a call (tap).
- **Private**: Switches a voice call from the vehicle hands-free to the connected phone (tap **Private**); returns to vehicle hands-free (tap **Hands-free**) .



- **Mute**/**Unmute**: Activates/deactivates Microphone muting function (tap to toggle).
- **Contacts**: Opens Contacts screen (tap).

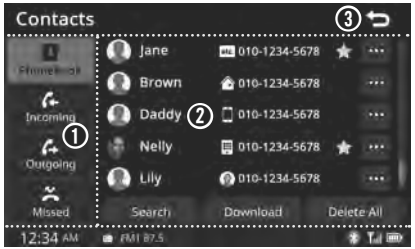
❷ **Keypad**: Enters a number for dial (tap); enters international prefix (tap and hold "0").

Note

- If the caller's number is listed in Contacts, the caller's name will be displayed. Otherwise, only the number will be displayed. On some mobile phones, the phone number may not be displayed.
- On some Bluetooth devices, the Use Private feature may not be supported.
- On some Bluetooth devices, the Switch feature may not be supported.
- Depending on handset type, the in-call volume that the other party hears may differ. If the other party reports that your voice is too quiet or too loud, adjust the microphone volume.

■ Using the Contacts

Select **Contacts** from the Phone screen.



❶ **Contacts type**: Opens contacts list for making a call (tap).

- **Phonebook**: opens downloaded your phone's Phonebook list (tap).
- **Incoming/Outgoing/Missed**: opens downloaded your phone's Incoming/ Outgoing/Missed call history list (tap).

❷ **List**: Shows your contacts list with information and controls; selects the desired list to dial the number (tap); scrolls the lists (swipe upwards/downwards).

- The contact symbols and icons are shown follows;

: Home : Mobile : Office
etc.: Etc. : Unregistered : Favorite
•••: Shows more information (tap) > dials (tap **Call**); closes More information screen (tab **X**).

- **Search**: Opens Search screen (tap) > searches contacts by entering keyword.

- **Download**: Downloads contacts from connected your phone (tap > select **Yes**).

- **Delete All**: Deletes all of the downloaded contacts (tap > select **Yes**).

❸ : Returns to previous screen (tap).

Note

- On some mobile phones, call records might not be added to your Call History.
- Calls from restricted IOs are not added to your Call History Information.
- Up to 50 calls can be added to each Dialed Calls/Received Calls/Missed Calls list.
- The duration of each Dialed/received call is not displayed on your car's Call History list.
- When the call history download is in progress, the status bar displays ???.
- If the call history download is turned off via the Bluetooth device, the download will fail.
- Some devices require device authentication for downloading call history. If download fails, check if the Bluetooth settings or display status are normal.
- Some devices do not support downloads. Check whether your Bluetooth device supports downloads.

Note

- Up to 5,000 phone numbers can be downloaded from a single, paired Bluetooth device.
- You cannot edit and delete downloaded phone numbers from your car.
- Contacts can be viewed only when the Bluetooth device is connected.
- Even if the Bluetooth device is disconnected, the downloaded data will remain. Note that deleting a paired phone will also delete all downloaded Contacts and Call History data.
- Downloaded phone numbers may be lost depending on the condition of the head unit. Keep your important data in a safe place.
- Depending on differing mobile phone models and conditions, the time for transferring and downloading contacts may vary.
- If you download contacts from your phone, the existing data will be deleted.
- By default, contacts from both the SIM card and your mobile phone are down loaded at the same time.
- If the contacts download function is turned off on the Bluetooth device, the download will not be available.
- Some devices require device authentication for downloading contacts. If download fails, check if the Bluetooth settings or display status are normal.
- Some devices do not support downloads. Check whether your Bluetooth device supports downloads.

Navigation

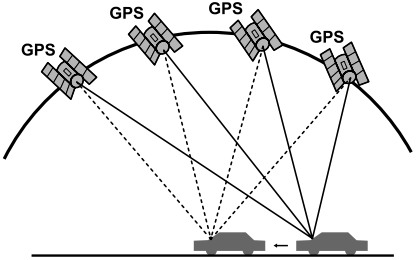
Getting started with Navigation ——

■ What is GPS?

The Global Positioning System (GPS) is a satellite-based navigation system made up of a network of 24 satellites placed into orbit by the U.S. Department of Defense.

GPS was originally intended for military applications, but in the 1980s, the government made the system available for civilian use.

GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no subscription fees or setup charges to use GPS.



■ About satellite signals

Your unit must acquire satellite signals to operate. If you are indoors, near tall buildings or trees, or in a parking garage, this system cannot acquire satellites.

■ Acquiring satellite signals

Before this system can find your current location and navigate a route, you must do the following steps:

1 Go outside to an area free from tall obstructions.

2 Turn on this system.
Acquiring satellite signals can take a few minutes.

■ Can not identify the current location (GPS not receiving)

GPS cannot be used indoors and must be connected to a power source with ACC in a vehicle in a location where the signal from the sky can be received easily.

When initially connecting the GPS, it usually takes about 5 minutes to be working normally, but the connection speed can differ depending on the weather condition, and surrounding obstacles.

If the GPS connection is unstable for a long period of time, try the following.

- Check if the product is connected to a power source.
- Check if the back of the GPS product is in a location where the sky can be seen well.
- If there are high buildings or if you are under a tree, move to a location where there aren't any obstacles.

■ Can not hear the voice guide

The volume is not set correctly, or it is turned off. Adjust the volume of voice guidance.

There is a difference between the driving road and the road on the map in the product.

Even though GPS is usually very accurate, there is a small margin for error.

When the GPS receiver is installed, there can be an error of about 10 m. But for newly built roads, the problem could come from the data update to the map.

■ Can not see the map

Perhaps you cannot see the map even when you have executed the navigation menu.

This happens when the data within the memory is damaged. Delete all the data in the memory and install the data again.

If the issue persists after installation, contact the A/S center.

■ The path guide can be different from the actual path (Path guide error)

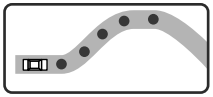
- When the road is closely parallel.
- When the splitting road angle is very small.
- When there is an adjacent road when turning.
- When driving on a road that is narrowing

fast.

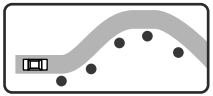
- When driving through the mountain or where the road is too curvy.
- When the starting, passing and arriving locations are too close within 1 km.
- When you have set the starting, passing or arriving location more than 1 km away from the road.
- When driving through the tunnel.

■ Map matching

As mentioned, the GPS systems used by this Navigation System are susceptible to certain errors. Their calculations may on occasion place you in a location the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and is able to correct your position by adjusting it to a nearby road. This is called map matching.



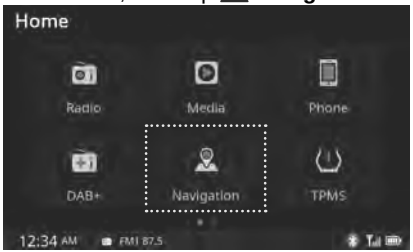
<With map matching>



<With no map matching>

Using the navigation

To enter the Navigation mode, press **Home** button, then tap **Navigation**.



When the Navigation mode is displayed, the relevant previously used radio or media playback will remain without visible on the screen.

- This feature is displayed on the screen, or changes other features to the feature button.

When the Navigation mode is displayed, you can control playback for background radio or media playing mode by using the buttons/dials on steering wheel remote control and unit.

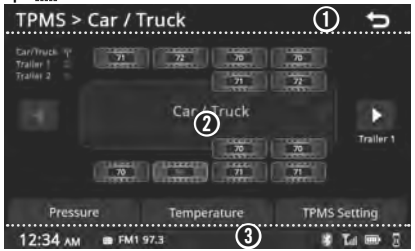
For more information about how to use the Navigation system, refer to its instruction manual.

Tire Pressure Monitoring System

Using the TPMS

This section explains how to use the Tire Pressure Monitoring System for safety.

Tap **TPMS** on the **Home** menu screen.



❶ Title bar: Shows the current menu title.
- ⮌: Returns to previous screen (tap).

❷ TPMS screen: Shows selected Vehicle type, wheel layout, status of each relay/tire (tap to show more information), and controls (tap).
- Shows about status of each relay as shown below;
  X: No connection to monitor
  : Relay's battery is low
  : Relay connected to system
- Tap **each tire image** to shows Tire Alert Value setting screen as shown below;

+/–: Adjusts value (tap).
Apply: Applies your settings (tap).
X: Close screen (tap)
- ◄/►: Move to previous/next page.
- **Pressure**: Shows each tire's pressure value of your vehicle.
- **Temperature**: Shows each tire's temperature value of your vehicle.
- **TPMS Settings**: Opens TPMS settings screen (tap).

❸ Status bar: Shows the playback and system conditions with clock as below.
: Bluetooth connection
: Network condition
: Battery condition
: TPMS warning icon (Indicators this icon while a TPMS error is occurring.)

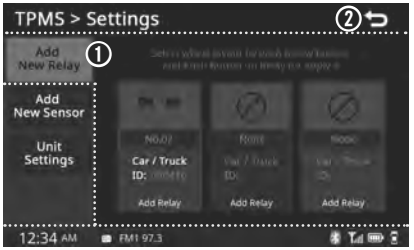
Note

- This TPMS system support 1 Car/Truck (head) and 2 trailers. Each vehicle(Relay) can identify max 12 TPMS sensors(But Car/Truck vehicle can identify 10 sensors only). and this TPMS system can identify total 34 sensors.

Setting the TPMS

Tap **TPMS Settings** on the **TPMS** screen.

■ TPMS Settings > Add New Relay



❶ Add New Relay control screen: Shows current wheel layout, Vehicle ID, and Add Relay button of each vehicle type

To sets wheel layout, tap **Vehicle ID**.

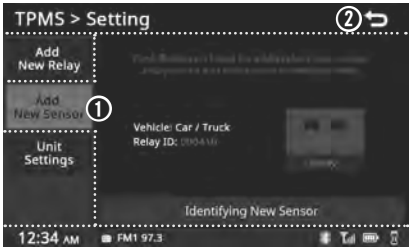
Selects desired layout (tap or swipe upwards/downwards), then tap **Save**.

To adds relay, tap **Add Relay** > select **New Relay** below each wheel layout > press button on wheel layout required relay.

❷ ⮌: Returns to previous screen (tap).

■ TPMS Settings > Add New Sensor

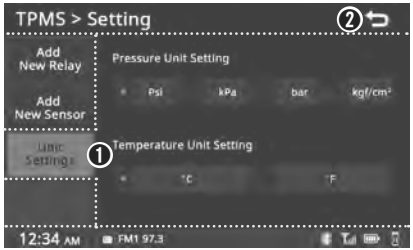
Push Button on Relay for add/replace new sensor, and you can add new sensor to selected Relay.



❶ Add New Sensor control screen: Shows current vehicle type, Relay ID and wheel layout.
- **Identifying New Sensor**: Identifies a new TPMS sensor (tab) that has been added/replaced.(tap).

❷ ⮌: Returns to previous screen (tap).

■ TPMS Settings > Unit settings



❶ Unit settings screen: Shows unit of Pressure/Temperature of display on TPMS; sets desired unit (tap).

❷ ⮌: Returns to previous screen (tap).

Note

Chart for supported measurement unit

Unit	Range	Default Value	Unit for 1 step	Increase/decrease step speed (/s)
psi	0 ~ 180	100	1	20
kPa	0 ~ 999	-	6 or 7	100
bar	0 ~ 13.8	-	0.07 (0 ~ 10) 0.1 (10 ~ max)	1.00
kgf/㎠	0 ~ 14	-		
℃	0 ~ 125	25	1	10
℉	32 ~ 257	-	1 or 2	10

*bar, kgf/㎠: Cut after first decimal place.
* psi, kPa, ℃, ℉: Cut after second decimal place.
* psi, ℃: Default value for when rest TPMS system.

Phone Projection

What is Phone Projection?

You can securely access your smartphone while driving by using this feature. Various functions on your smartphone are displayed on this system so you can easily use them (finding directions, making a call, listening to music etc.).

With Phone projection supported device connected, Phone projection menu appears on the display. Available functions and operations may differ depending on the model.

For more information, visit the Phone projection website.

- Android Auto: http://support.google.com/androidauto/
- Apple CarPlay: http://www.apple.com/ios/carplay/

■ Precautions

- Android Auto is a registered trademark of Google Inc.
- Apple CarPlay is a registered trademark of Apple Inc.
- Phone projection will be unavailable if the phone OS is not the latest version or your phone is unable to be recognized due to a shutdown caused by a failure or defect in the device itself.
- Your phone may not be recognized if its battery is low. Charge your phone then try again.
- If your phone is shut down due to a defect in the device itself, reset your phone and try again.
- If you repeatedly connect and disconnect the USB cable on the device in a short period of time, your phone may malfunction. This can also cause a device failure.
- The device recognition time may differ depending on the device type and firmware/OS version.
- Using the USB cable that came with the phone is recommended. (Using a non genuine product may cause noise or malfunction.)
- Normal operation is not guaranteed when you arbitrarily manipulate your phone while Phone projection is active.
- Phone projection may not operate normally due to mobile phone issues.
- Network charges may apply when using Phone projection.
- You cannot run Apple CarPlay while making a call using Bluetooth.
- If the network signal strength is weak, some Phone projection features may not work properly.
- The following problems may occur due to issues with your phone.

[Android Auto]

- Intermittent black screens appear when entering Android Auto.
- Unable to differentiate between phones that support Android Auto and those do not.
- Black screens appear in some areas of the screen due to phone or app errors.

[Apple CarPlay]

- Intermittent black screens appear when entering Apple CarPlay.
- Black screens appear in some areas of the screen due to app errors when navigating between screens in Apple CarPlay.
- Audio volume may not be adjusted depending on the status of the connected phone.
- Voices may not be heard upon disconnecting Apple CarPlay during a call via Apple CarPlay.

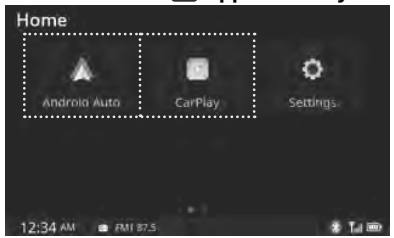
Note

- If services do not work properly due to problems similar to the specified above, check your phone and if necessary, reconnect your phone after restarting.

■ Using the Phone Projection features

1 With Android Auto, connect the USB cable provided by the mobile manufacturer.
With Apple CarPlay, connect the USB cable provided by Apple.

2 On the **Hom**e screen, select the **Android Auto** or **Apple CarPlay**.



3 You can use Phone projection features, such as navigation, music and phone.

Note

- Before connecting your mobile phone, check whether Phone projection is set to ON n the Phone Projection settings menu.
- After connecting the mobile phone, you must unlock your phone and accept the Disclaimers on your phone in order for Phone projection to launch.
- The screens and features displayed on this system are subject to change depending on the policies of each company.

[Android Auto]

- Refer to the website below to view the list of countries that support Android Auto. https://www.android.com/auto/
- Bluetooth media features will be disabled when Android Auto is activated. You cannot use Bluetooth Media features such as Bluetooth Audio. If you want to use such features, remove the USB cable before use.
- Android Auto mode does not support the feature that enables you to search for music files by controlling the **SEEK +/–** buttons on steering wheel.
- If Android Auto is not activated even after a successful connection, check the following:
  - Phone Application status (Check if an error has occurred).
  - Check if Android Auto has been locked on your phone.
  - Check whether Android Auto is set to ON in the Phone projection settings menu.
- If Android Auto does not work normally even after a reconnection has been made, visit the Google website http://support.google.com/androidauto
- The screens and features displayed on this system are the same as what Google originally provide. The screens and features are subject to change according to the policy of Google Inc.

[Apple CarPlay]

- To view the available features, such as Apple CarPlay, Siri, and Maps, or countries that support the features, please go to: http:/ / www.apple.com/ios/featu re-availability/
- When Apple CarPlay is activated, you cannot use Bluetooth. If you want to use Bluetooth Phone/ Audio, remove the USB cable and connect to Bluetooth before using them.
- Apple CarPlay mode does not support the feature that enables you to search for music files by controlling the **SEEK +/–** buttons on steering wheel.
- If Apple CarPlay is not activated even after a successful connection, check the following:
  - Check if Apple CarPlay is disabled in your iPhone's application settings.
  - Check whether Apple CarPlay is set to ON in the Phone projection settings menu.
- If Apple CarPlay does not work normally even after a reconnection has been made, visit the Apple website http://www.apple.com/ios/carplay/
- The screens and features displayed on this system are the same as what Apple originally provide. The screens and features are subject to change according to the policy of Apple Inc.

■ Controlling the Phone Projection using by buttons on this system

When pressed and held (Voice) button on this system

- If Apple CarPlay is connected, activates Apple CarPlay Siri Recognition.

Each time pressed MODE button on IR remote control

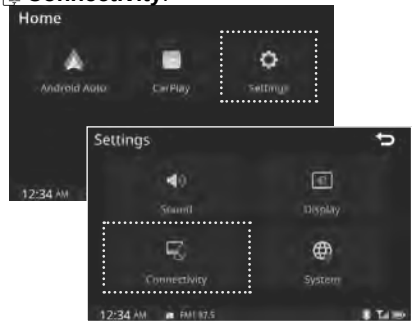
- The Function mode is changed.
  Mode order is subject to change depending on the state of the Phone projection connection and enabled features.

※ If the corresponding mode is disabled, the next mode will be enabled.

※ While running Phone projection, you cannot operate features such as: USB, iPod, Bluetooth Audio

Phone Projection settings

On the **Settings** menu screen, select **Connectivity**.



Activate (ON) **Android Auto** or **Apple CarPlay** on Connectivity setting screen

You can enable any Phone projection feature that you would like to connect to or disable them in the Connectivity settings menu.

It is recommended you use a device installed with the latest OS version. Some multimedia system features may not be available while Phone projection is active.

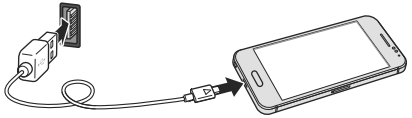
Android Auto (optional)

Android Auto allows you to gain access to maps, make phone calls, listen to music, and more by connecting a compatible Android phone to this system.

■ Accessing Android Auto

1 Download the Android Auto app on your Android phone from the Google Play Store.

2 Plug your Android phone into the iPod/USB port via the USB cable provided with your Android phone.



3 When initially accessing Android Auto, tap **ACCEPT** or **I AGREE** on your Android pone.

Note

- The user agreement screens may differ depending on Android phones.

  The Android Auto screen will appear.

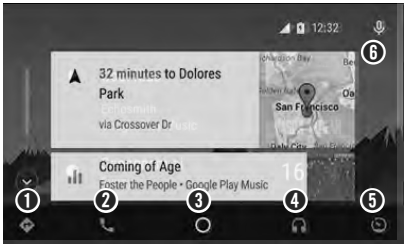
  To end Android Auto, unplug the USB cable from the iPod/USB port.
- The user agreement screens may differ depending on Android phones.
- To use Android Auto, you need an Android phone running Android OS 5.0/5.1 (Lollipop), 6.0 (Marshmallow), 7.0/7.1 (Nougat), 8.0/8.1 (Oreo), 9.0 (Pie) or higher.
- While connected to Android Auto, calls can only be made via Android Auto, not through the Bluetooth connection.
- Android Auto requires a compatible Android phone with an active cellular connection and data plan.

  Your carrier's rate plans will apply.
- Android Auto features may operate differently than similar features on your phone.
- Android Auto relies on the performance of your phone. If you experience performance issues, restart your apps. Then, disconnect and reconnect your phone.
- To set Android Auto enable or disable, refer to "**Connectivity Setting**" on page 43.

■ Android Auto screen

The following are the main menu options available on the Android Auto screen.

Connect an Android Auto-compatible device to the USB port via the USB cable.



❶ (Navigation)**:** Shows a map and operate the navigation feature (tap).
You can only use this system or the preinstalled navigation system to set a destination with routing guidance.

❷ (Phone): Makes phone calls or hear your voicemail (tap).

❸ (Google Now): Displays useful information when required (tap).

❹ (Music): Plays music from compatible apps (tap). Also, tap this icon to switch between music apps.

❺ (Vehicle info): Checks your vehicle info or call roadside assistance (tap).

❻ (Voice): Uses voice commands to operate Android Auto (tap).
You can also press and hold (Phone/Voice) button on this system to use Google Voice Commands. With Google Voice Recognition, you can make phone calls, view maps, and play music.

Note

- To return to the Home menu screen, tap the **Vehicle info** icon > **Return to TL-01**.
- You can use compatible third-party apps.

Refer to the Android Auto website for a list of compatible apps.

■ Phone

Making a call using Google voice recognition

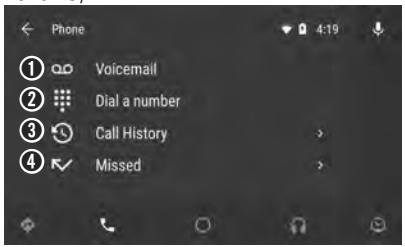
1 From the Android Auto screen, tap (Voice).

2 Say the name of your desired contact. Android Auto will then call the desired contact.

Making a call using phone options

1 From the Android Auto screen, tap (Phone) or press (Phone/Voice) button on this system.

2 Select the desired calling option as follows;



❶ Voicemail: Hear your voicemail (tap).

❷ Dial a number: Dials a number and make a call (tap).

❸ Call History: Sees your call history and make a call (tap).

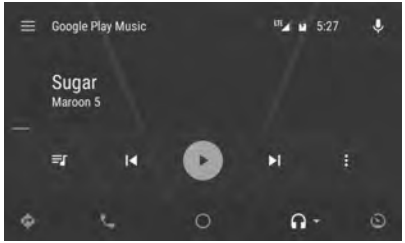
❹ Missed: Sees your missed calls and make a call (tap)

■ Music

Playing music

1 From the Android Auto screen, tap (Music).

2 Select the desired music app.
When a music app is selected, song information will be displayed.



Note

- Google Play Music is the only music app that can be controlled by voice recognition. Third-party music applications, such as Spotify and iHeartRadio, do not support voice recognition.

■ Navigation

Viewing your current location

From the Android Auto screen, tap (Navigation).

Your current location will be indicated on the map.

Using the Google Maps

You can use Android Auto to get voice-guided navigation, arrival estimates, live traffic information, lane guidance, and more with Google Maps.

❶ : Locates your current position on the map (tap).

❷ N: Changes map to a 3D view (tap).

❸ + / −: Zoom in or zoom out the current location on the map (tap).

Searching for a location

1 From the Android Auto screen, tap (Navigation).

Your current location will be indicated on the map.

2 Tap **Google** search field and search for a desired location.

Note

- You cannot enter destinations using the keyboard while driving. To search for a location, tap (Voice) and say a desired destination to begin navigation.

Apple CarPlay

■ About Apple CarPlay

Apple CarPlay integrates your iPhone's apps with your car's media system, allowing you to access the applications and your device more easily. You can get directions, make calls, send and receive messages, and listen to music.

Apple CarPlay is available for all Lightning-enabled iPhones (currently supported iPhones are 5, 5c, 5s, 6 (Plus), 6s (Plus), SE, 7 (Plus), 8 (Plus), X, XR, XS (Max) or higher).

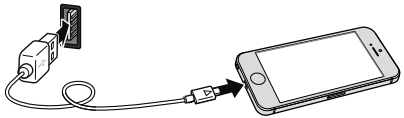
Note

- Apple CarPlay may not be supported depending on your vehicle's options and which region this system is being used in.

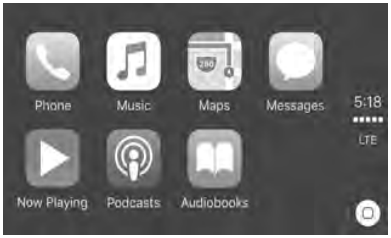
■ Accessing Apple CarPlay

Firstly, check the System Connectivity is selected to CarPlay for USB connection of iOS device, refer to "***Setting the Apple CarPlay***" on page 45 ~ 46.

Plug your iPhone into the iPod/USB port via a Lightning cable.



When your iPhone is successfully connected to the USB port, the Apple CarPlay home screen will appear.



Note

- If your iPhone is locked, you need to enter the passcode to unlock the iPhone. To access Apple CarPlay while the iPhone is locked, on your iPhone, tap **Settings** > **General** > **CarPlay** and set your iPhone to **Allow CarPlay While Locked**.
- If your iPhone is not successfully connected, a pop-up message will appear. Then, reconnect the iPhone to the iPod/USB port.

Tap a desired app to open it.

To end Apple CarPlay, unplug the Lightning cable from the USB port.

■ Returning to the Apple CarPlay home screen

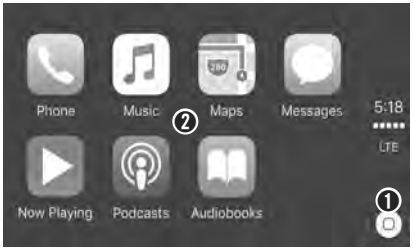
To return to the Apple CarPlay home screen, tap **Apple CarPlay** from **Home** menu screen.

Or, press the **MODE** button on the IR remote controls several times until the Apple CarPlay home screen appears.

To return to the Apple CarPlay home screen while using any application in Apple CarPlay, tap ⓞ at the bottom right of the screen.

■ Apple CarPlay home screen

The following are the main applications available on the Apple CarPlay home screen.



❶ ⓞ (Home): Returns to Apple CarPlay home screen.

❷ Apps
- **Phone**: Makes a call.
- **Music**: Plays music stored on your iPhone.
- **Maps**: Views map or searches for a location.
- **Messages**: Hears or sends a text message using Siri.
- **Now Playing**: Plays streaming music or a music file that are previously played or currently playing.
- **Podcasts**: Plays podcasts stored on your iPhone.
- **Audiobooks**: Plays audio books stored on your iPhone.

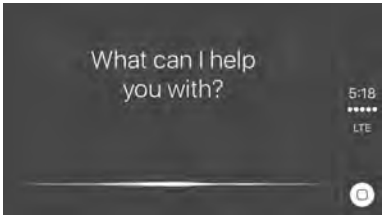
Note

- Applications not shown in the Apple CarPlay home screen are not supported by Apple CarPlay. The applications supported by Apple CarPlay may change in the future.
- Apple CarPlay is optimized for iOS 8.4. Application features may vary depending on your iOS version.

■ Activating Siri

Tap and hold ⓞ (Home) button on the Apple CarPlay home screen or press and hold (Phone/Voice) button on the Head unit.

Say the desired command loudly.



Note

- When using Siri, say commands loudly so that Apple CarPlay can properly recognize your voice.

English

8

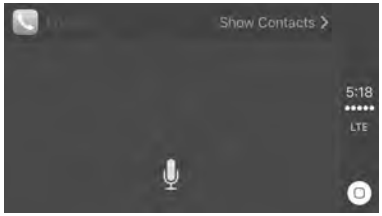
■ Phone

Making a call using Siri

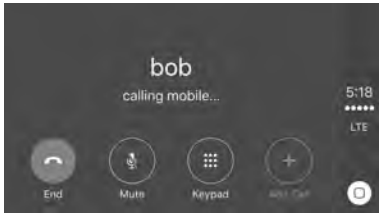
From the Apple CarPlay home screen, tap **Phone**.

- You can also press (Phone/Voice) button on this system to open the Phone application.

Say the name of your desired contact.



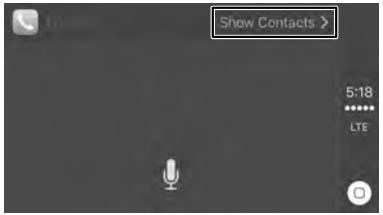
Your iPhone will then call the desired contact.



Making a call using Contacts

From the Apple CarPlay home screen, tap **Phone**.

Tap **Show Contacts**.

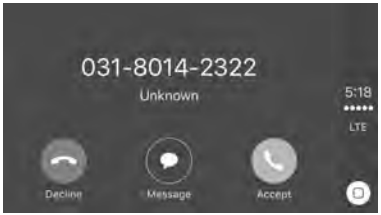


Select the desired calling option.

❶	**Favorites**: Views your favorite contacts list.
❷	**Recents**: Views your recently called contacts list.
❸	**Contacts**: Calls a number stored in your contacts.
❹	**Keypad**: Enters a phone number.
❺	**Voicemail**: Starts a voicemail.

Accepting or declining a call

When you receive an incoming call on your iPhone while using Apple CarPlay, the following screen will appear.



Tap **Accept** to accept the call or tap **Decline** to decline the call.

■ Music

From the Apple CarPlay home screen, tap **Music**.

Tap a desired category and select a song stored on you iPhone.

❶	**Library**: Selects a library.
❷	**Playlists**: Listens to the music in default playlists or your own playlists.
❸	**Radio**: Listens to the iPhone's radio.

■ Now Playing

From the Apple CarPlay home screen, tap **Now Playing**.

This feature plays music from third-party applications or music files stored in your iPhone.

❶ ◀◀/▶▶: Skips to previous or next song in the list.

❷ ❚❚/▶: Pauses/resumes playback.

❸ ⤮: Selects/deselects the shuffle playback mode.

❹ ●●●: Opens more menu.

❺ ⟲: Selects/deselects repeat playback mode.

■ Maps

Viewing your current location

From the Apple CarPlay home screen, tap **Maps**.

Your current location will be indicated on the map.

❶ ⌖: Locates your current position on the map.

❷ **3D**: Changes map to a 3D view.

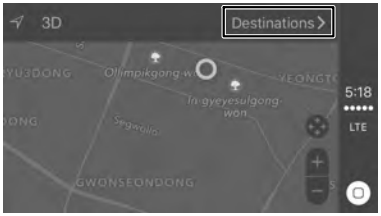
❸ **Destinations**: Searches for desired destination or favorite locations.

❹ ●●●: Opens more menu.

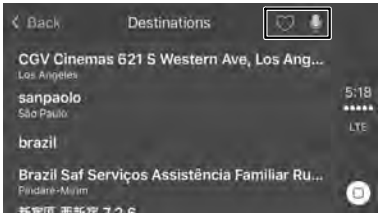
❺ **+**/**−**: Zoom in or zoom out the current location on the map.

Searching for a location

From the Apple CarPlay home screen, tap **Maps** > **Destinations >**.



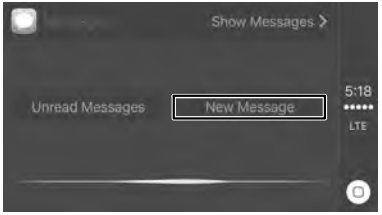
Tap 🎙 to search for the desired destination or tap ♡ to search for a favorite location.



■ Messages

Viewing your current location

From the Apple CarPlay home screen, tap **Messages** > **New Message**.



Say the desired name from your contacts to send a text message using Siri.

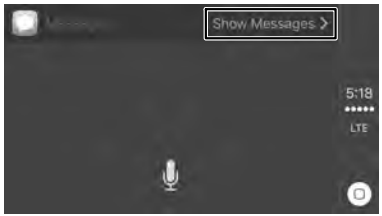
Siri will ask you what you want to tell the contact.

Say the message out loud.

A text message will be sent to the contact.

Hearing a text message

From the Apple CarPlay home screen, tap **Messages** > **Show Messages**.



Select a message.

Siri will read the selected message out loud.

■ Podcasts

Playing a podcast

From the Apple CarPlay home screen, tap **Podcasts**.

Tap My Podcasts and select a desired podcast to play.

❶	**Unplayed**: Opens list of unplayed podcasts stored in your iPhone (tap).
❷	**My Podcasts**: Opens list of podcasts stored in your iPhone (tap).
❸	**Top Charts**: Opens list of top chart rankings in Podcasts (tap).

Select a desired podcast to play.

Settings

Settings menu screen

This section explains how to customize the settings for this system.

Tap **Settings** on the Home menu screen.

❶ Title bar: Shows the current menu title.
- ⮌: Returns to previous screen (tap).

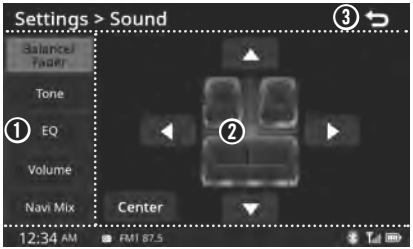
❷ Setting Menu: Opens each setting control screen (tab) as shown below.
- **Sound**: Sets Sound.
- **Display**: Sets Display.
- **Connectivity**: Sets Connectivity.
- **System**: Sets System.

❸ Status bar: Shows playback and system conditions with clock as shown below.
: Bluetooth connection
: Bluetooth phone's Network condition
: Bluetooth phone's Battery condition
: Tire Pressure Monitoring System condition

Sound settings

Adjusts the sound effects for the whole system.

Tap **Sound** on the Settings menu screen.



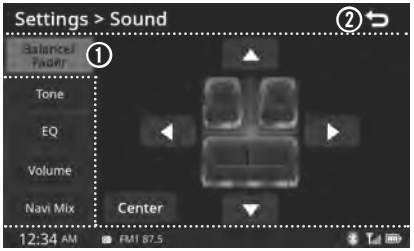
❶ Sound setting menu tab**:** Opens each Sound Setting control screen (tap) as shown below.
- **Balance/Fader**: Adjusts Sound Balance and Fader of the speakers.
- **Tone**: Sets Tone.
- **EQ**: Sets Equalizer style.
- **Volume**: Sets Initial Volume of the each mode.
- **Navi Mix**: Sets Media volume reduction level when voice guidance instructs.

❷ Controls screen: Shows setting item and controls of the corresponding each menu.

❸ ⮌: Returns to previous screen (tap).

■ Adjusting the sound balance and fader

Tap **Balance/Fader** menu tab on the Sound settings screen.

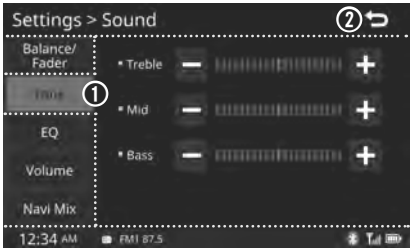


❶ **Balance/Fader** controls: Sets sound positioning (tap ▲▼◄► or drag highlighted pointer).
- The highlighted pointer will indicate the focused listening position.
- **Center**: initializes settings (tap).

❷ ⮌: Returns to previous screen (tap).

■ Adjusting the sound tone

Tap **Tone** menu tab on the Sound settings screen.



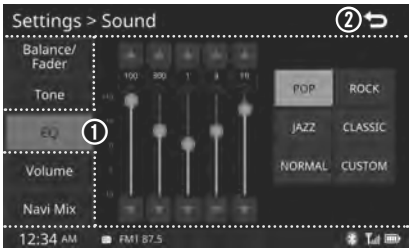
❶ **Tone** controls: Sets output level of Treble/ Middle/Bass sound (tap **−/+** or drag highlighted gauge bar).

• The adjustment value is shown for about 2 seconds at that position.

❷ ⮌: Returns to previous screen (tap).

■ Setting the Equalizer

Tap **EQ** menu tab on the Sound settings screen.



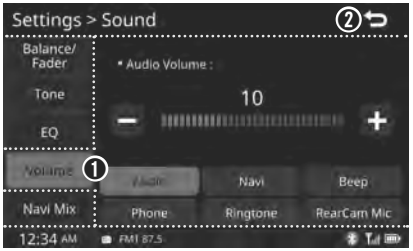
❶ **EQ** controls: Selects Equalizer style (tab).

• To adjust the equalizer settings manually, select **CUSTOM**, then tap ▲/▼ or drag control pointer of each band.

❷ ⮌: Returns to previous screen (tap).

■ Adjusting the volume

Tap **Volume** menu tab on the Sound settings screen.



❶ **Volume** controls: Selects each mode (tab), then sets volume level (tab **−/+** or drag gauge bar).

The volume level range is as follows;

• Audio: 0 ~ 30

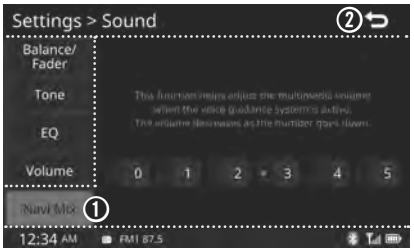
• Navi/Ringtone/RearCam Mic: 0 ~ 15

• Phone: 1 ~ 15 • Beep: 0 ~ 4

❷ ⮌: Returns to previous screen (tap).

■ Adjusting the Navi Mix volume

Tap **Navi Mix** menu tab on the Sound settings screen.



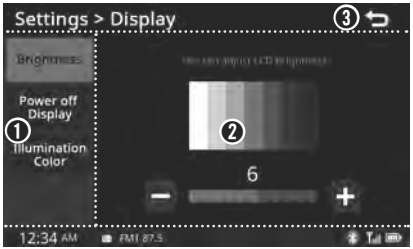
❶ **Navi Mix** controls: Sets the Media volume reduction level (tab) when voice guidance instructs.

❷ ⮌: Returns to previous screen (tap).

Display Settings

This section explains how to customize the display settings.

Tap ☼ **Display** on the Settings menu screen.



❶ Display Settings menu tab: Opens each Display settings menu screen (tap).

• **Brightness**: Sets screen brightness.

• **Colour**: Sets screen colour for the videos.

• **Power off Display**: Sets display type when the power is off.

• **Illumination Colour**: Sets illumination colour for faceplate buttons light.

❷ Controls screen: Shows setting item and controls of the corresponding each menu.

❸ ⮌: Returns to previous screen (tap).

■ Setting the Brightness

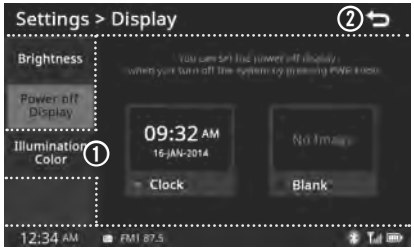
Tap **Brightness** menu tab on the Display settings screen.

❶ **Brightness** controls: Brightness level of the screen (tab −/+ or drag gauge bar).
- The gray bar upper to control bar will provide you with a preview of the settings.

❷ ⮌: Returns to previous screen (tap).

■ Setting the Power-off display type

Tap **Power off Display** menu tab on the Display settings screen.



❶ **Power off Display** controls: Sets type of the screen (tab) when power is off state.
- If you select **Blank**, the screen will turn off when the system is switched to standby mode.

❷ ⮌: Returns to previous screen (tap).

■ Setting the Illumination Colour

Tap **Illumination Colour** menu tap on the Display settings screen.

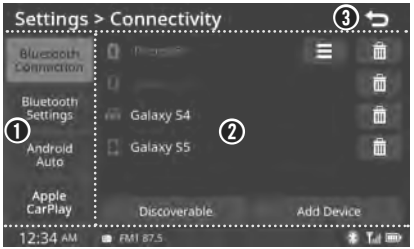
❶ **Illumination Colour** controls: Sets colour of the illumination (tab) about Faceplate buttons light.

❷ ⮌: Returns to previous screen (tap).

Connectivity Settings

This section explains how to customize the Bluetooth settings.

Tap **Connectivity** on the Settings menu screen.



❶ Connectivity Settings menu tab: Opens each Connectivity settings menu screen (tap).
- **Bluetooth Connection**: Sets Bluetooth device Connection.
- **Bluetooth Settings**: Sets Bluetooth features.
- **Android Auto**: Sets Android Auto app features for Android phone connection.
- **Apple CarPlay**: Sets Apple CarPlay app features for Apple iPhone connection.

❷ Controls screen: Shows setting item and controls of the corresponding each menu.

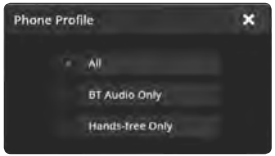
❸ ⮌: Returns to previous screen (tap).

■ Setting the Bluetooth Connection

Tap **Bluetooth Connection** on the Connectivity settings menu screen.

❶ Bluetooth Connection controls: Shows paired Bluetooth device list (up to 5 devices) with Phone Profile state; connects/disconnects your device (tap > select **Yes** or **No**).

- Phone Profile condition is as below;
  : All Profile connection
  : Bluetooth Audio Profile connection
  : Hands-free Profile connection
- : opens Phone Profile option menu (tap > select a Profile type).



- : delete a device (tap > select Yes or No)
- **Discoverable**: open Discoverable screen (tap) to search Bluetooth device. Refer to "**To discover and connect to a Bluetooth device**" on page 23.
- **Add Device**: opens Search on Device screen (tap) to register a new Bluetooth device. Refer to "**To add and connect to a Bluetooth device**" on page 23.

❷ : Returns to previous screen (tap).

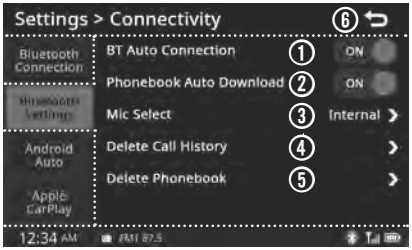
Note

- Up to 5 Bluetooth devices can be paired.
- Only one Bluetooth device can be connected at a time.
- During Bluetooth device connection, another device cannot be paired.
- When you delete a paired device, the Call History and Contacts stored in the head unit are also completely deleted.
- Bluetooth Hands-free and Bluetooth Audio functions are supported.
- Hands-free and audio-supported devices, such as a Bluetooth smartphone or audio, will function normally.
- When a Bluetooth device is connected, if the Bluetooth connection is unexpectedly disconnected due to being out of communication range, the device powering oft or a Bluetooth communication error, the Bluetooth device automatically searches for and connects to other nearby Bluetooth devices.
- If the system is not stable due to a vehicle Bluetooth device communication error, restore the Default Factory Settings.

  In System Default setting, the Bluetooth settings are reset to factory settings. From the **Home** screen, choose **Settings** > **System** > **Device Info** > **System Default** > **Yes** in order .

■ Setting the Bluetooth

Tap **Bluetooth Settings** menu tab on the Connectivity settings menu screen.



❶ **Bluetooth Auto Connection**: Activates (ON)/deactivates (OFF) Bluetooth auto connection feature (tap to ON/OFF toggle).

- If the Bluetooth Auto Connection is activated, Bluetooth will connect/ disconnect the previous Bluetooth device only once in background mode when the Bluetooth device is not connected after booting.
- The last connected Bluetooth device has the priority. (However, if the last connected Bluetooth device is not available, the next Bluetooth device is searched according to the connection order.)
- When you perform Bluetooth Connection/ Pairing manually while auto connection is in background mode, the manual procedure takes priority.
- When the engine is running, the selected Bluetooth device is automatically

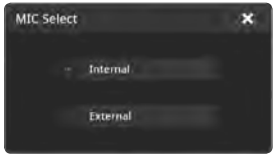
connected.

- If you fail to connect the selected device, the previously connected device is automatically connected. If this also fails, it tries to connect all paired devices sequentially.
- Depending on auto-connection priority, connection to a device may take some time.

❷ **Phonebook Auto Download**: Activates (ON)/deactivates (OFF) Phonebook auto download feature (tap to ON/OFF toggle).

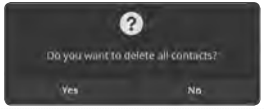
- When the Phonebook Auto Download is activated, PBAP is requested once automatically at the time of the BT connection after ACC is On.
  Also Phonebook is updated automatically if user make a call and end.
- Max 1,000 profile images and 5,000 phonebook can be able to download.

❸ **Mic Select**: Sets microphone type (tap **Internal** or **External** > tap **X**) for phone conversations.

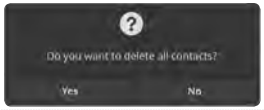


- Internal Microphone is installed on Faceplate, and External Microphone is connected to back panel.

❹ **Delete Call History >**: Delete the Call History of the connected phone (tap > select to **Yes** or **No**).



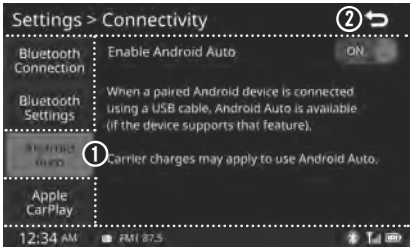
❺ **Delete Phonebook >**: Delete the Phonebook of the connected phone (tap > select to **Yes** or **No**).



❻ ⮌: Returns to previous screen (tap).

■ Setting the Android Auto

Tap **Android Anuto** menu tab on the Connectivity Settings menu screen.



❶ **Android Auto** controls: Activates (ON) / deactivates (OFF) the Android Auto features (tap to toggle).

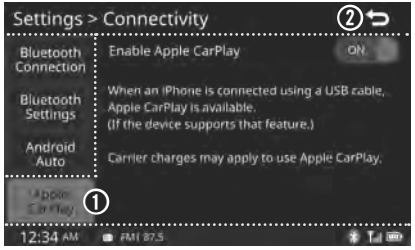
- To activate the Android Auto feature when Android Phone is connected to the USB port, set to ON, then select to **Yes**.

- If any device is connected to the USB port, you cannot set Android Auto activate or deactivate.
- When you are using Android Auto, you cannot use the Bluetooth Audio player.

❷ ⮌: Returns to previous screen (tap).

■ Setting the Apple CarPlay

Tap **Apple CarPlay** menu tab on the Connectivity Settings menu screen.



❶ Apple CarPlay controls: Activates (ON)/ deactivates (OFF) the Apple CarPlay features (tap to toggle).

- To activate the Apple CarPlay feature when iPhone is connected to a USB port, set to ON, then select to **Yes**.

- If any device is connected to the USB port, you cannot set Apple CarPlay activate or deactivate.
- When you are using Apple CarPlay, you cannot use the Bluetooth Audio player.

❷ ⮌: Returns to previous screen (tap).

System Settings

This chapter explains how to customize this system settings and keep this system up to date.

Tap **System** on the Settings menu screen.

❶ System Setup menu tab: Opens System settings menu screen (tap).
- **Device Info**: Shows System information; updates Software and return to System default.
- **Time**: Sets current Time.
- **Date**: Sets current Date.
- **Language**: Sets Language for displaying.
- **Other Settings**: Set others.

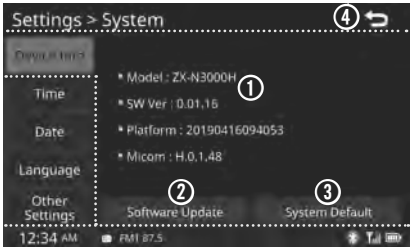
❷ Controls screen: Shows setting item and controls of the corresponding each menu.

❸ ⮌: Returns to previous screen (tap).

■ Checking the System information and Update/Initialize

System version information and update details are available.

Tap **Device Info** menu tab on the System settings menu screen.



❶ System Information controls: Shows unit's system software/firmware version and other information.

❷ **Software Update**: Updates system software by using the USB memory that contain the update file (tap > **Yes** or **No**).

- This product needs supplementary software updates, additional new functions, which collectively may take some time to complete, depending on the amount of data.
- If the power is disconnected or the USB device is removed during an update, data might be damaged. Please wait until the update is complete with the engine on.
- Do not remove the USB device or turn off the ignition until the update is complete and this system restarts. Doing so may damage this system.

❸ **System Default**: Resets user-generated system data and the user-specified

settings (tap > select **Yes** or **No**).

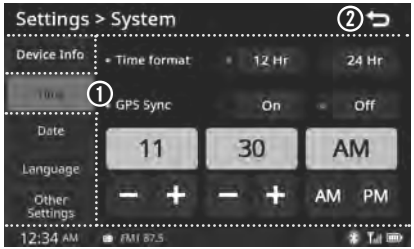
❹ ⮌: Returns to previous screen (tap).

■ Setting the Current Time

Configure the settings for time.

Time settings do not automatically change when crossing into different time zones. The time must be changed manually on this screen.

Tap **Time** menu tab on the System settings menu screen.



❶ Time setting controls: Sets Time Format (tap **12 hr** or **24 hr**); activates (tap On: Automatically sets current time in GPS data)/deactivates (tap Off) GPS Sync feature; sets current time manually (tap **–/+**, **AM**/**PM**).

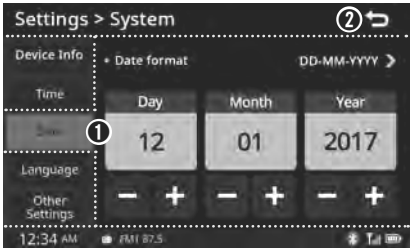
❷ ⮌: Returns to previous screen (tap).

■ Setting the Current Date

Configure the settings for date.

Date settings do not automatically change when crossing into different time zones. The time must be changed manually on this screen.

Tap **Time** menu tab on the System settings menu screen.



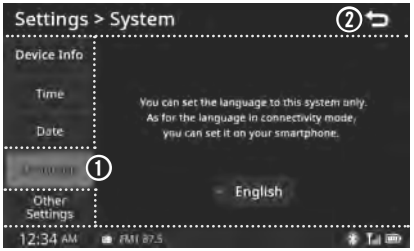
❶ **Date** setting controls: Sets Date format (tap **DD-MM-YYYY, MM-DD-YYYY** or **YYYY-MMM-DD**); sets current date manually (tap **–/+**).

❷ ⮌: Returns to previous screen (tap).

■ Setting the Language

You can configure the displayed system language.

Tap **Language** menu tab on the System settings menu screen.



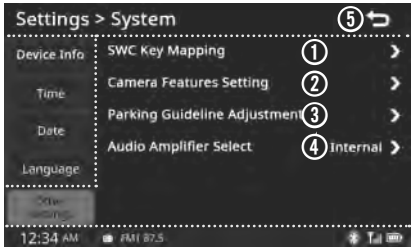
❶ Language setting controls: Sets language. (This system is supported in English only.)

- If the language settings is changed, this system language is automatically changed. Unique data including Media file name is not changed and some languages don't support voice recognition.

❷ ⮌: Returns to previous screen (tap).

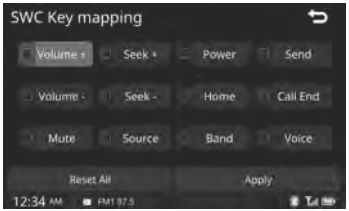
■ Setting Others

Tap **Other Settings** menu tab on the System settings menu screen. Tap desired each submenu to open the control screen.



❶ **SWC Key mapping >**: Configures feature of each key of the Steering Wheel Controls to control this system.

- To apply each key of the SWC to control this system, press **any key of SWC** > select **functional icon** on screen, then tap **Apply** > **Yes**. Repeat the above steps to activate each keys of the SWC.

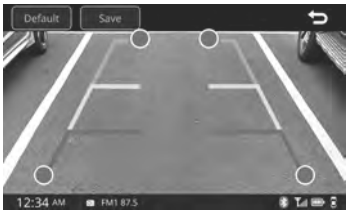


- **Reset All**: resets all key mapping (tap).

❷ **Camera Features Setting >**: Activates (ON)/deactivates (OFF) each camera features (tap to toggle).

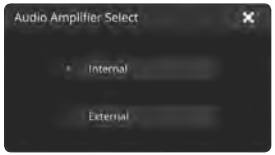
- Do not remove the USB device or turn off the ignition until the update is complete and this system restarts. Doing so may damage this system.

❸ **Parking Guideline Adjustment >**: Sets Parking Guideline for Rear View Camera screen. (tap to open the control screen > drag each Edge point > tap **Save**)



- **Default**: Initializes settings (tap).

❹ **Audio Amplifier Select >**: Sets Audio Amplifier type. (tap to open the control screen > tap **Internal** or **External** > tap **X**)



❺ ⮌: Returns to previous screen (tap).

Appendix

Product Specifications

■ General

Power Source	Standard: 12 V or 24 V (Negative Grounding)
	Operation: 10.5 ~ 32 V (Negative Grounding)
Load Impedance	4 Ω / 4 Channels
Output Power	4 Ch x 50 W
Dimensions (W x H x D)	Chassis: 178 x 100 x 120.7 mm (7 x 3-7/8 x 4-3/4 in.)
	Nose: 181 x 103 x 32 mm (7-1/8 x 4 x 1-1/4 in.)
Weight	1.3 kg (2.87 lbs)

■ LCD

Size / Resolution	6.5 inch / 384,000 pixels (800 x 480)
Operating Method	TFT (Thin Film Transistor) LCD (C Touch)
Viewing Angle	Left/Right, Top/Bottom: ALL 80°
Internal Lighting	LED

■ Radio

Channels	FM: 87.5 MHz ~ 108.0 MHz (100 kHz) AM: 531 kHz ~ 1,602kHz (9kHz)
Sensitivity	FM: Under 12 dBu / AM: Under 35 dBu
FM distortion	2 %

■ USB player

Music files

File format	MPEG-1/2 Layer3, OGG (Vorbis), FLAC, WMA (Standard/Professional), WAV	
Bit-rate and sampling frequency	MP3	8 ~ 320 kbps (CBR/VBR), up to 48 kHz (ID3 tag version: Ver. 1.0, 1.1, 2.2, 2.3, 2.4)
	OGG	Q1 ~ Q10, up to 48 kHz
	FLAC	8/16/24-bit, up to 48 kHz
	WMA	Standard (0x161): up to L3 Profile, up to 385 kbps, up to 48 kHz Professional (0x162): up to M0b, up to 192 kbps, up to 48 kHz
	WAV	8/16-bit, up to 48 kHz
Specification details	Max. number of directory layers: 20 layers Max. folder/file name length: 255 Bytes Valid characters that can be used in a folder/file name: 2,350 Alphanumeric characters / 4,888 Chinese characters Max. number of folders: 2,000 (including the root) Max. number of files: 8,000	

Video files

File format	AVI, MPEG, WMV
File extension	avi, divx, mpg, mpeg, mp4, wmv, asf
Resolution	1,920 x 1,080
Video codec	DivX3/4/5/6, XviD, MPEG-1/4, H264, WMV9
Audio codec	MP3, OGG, WMA
Subtitle	SMI, SRT

Note

- The following files are not played.
  - Modified files (format-changed files)
  - Variant files (e.g. MP3 files encoded by WMA audio codec)
  - DRM (Digital Rights Management)-protected files
  - Files with no index
- The display specifications, playback specifications, and other specifications of the DivX file comply with the authentication standards of DivX.
- Sound quality is not guaranteed in case of music files that use the bit-rate exceeding 192 kbps.

- With the files that do not use the fixed bit rate, some functions may not work properly or the playback time may not appear accurately.
- When a trouble occurs while playing or you want to play an incompatible format file, use the latest encoder software to change the format before using the file.

■ Bluetooth® Wireless Technology

Frequency Range	2,402 - 2,480 MHz
Supported Bluetooth Specifications	Version 4.1
Output Power	+ 4 dBm Max
Supported Profile	Advanced Audio Distribution Profile (1.6), Audio/ Video Remote Control Profile (1.6), Hands-Free Profile (1.7), Phone Book Access Profile (1.2)

■ Apple CarPlay

Supported Apple CarPlay iPhones	iPhone 5, iPhone 5c, iPhone 5s, iPhone 6 (Plus), iPhone 6s (Plus), iPhone SE, iPhone 7 (Plus), iPhone 8 (Plus), iPhone X, iPhone iPhone XR, XS (Max) or higher.

■ Android Auto

Supported Android Auto Android phones	Android OS 5.0/5.1 (Lollipop), 6.0 (Marshmallow), 7.0/7.1 (Nougat), 8.0/8.1 (Oreo), 9.0 (Pie) or higher

Note

- Further information including the manufacturer's declaration of conformity is available on OzNav web site as follows; http://www.oznav.com.au

Install and Connection

■ Before Installation

Before installation of this unit, please note the following precautions.

⚠ Warning

- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.

⚠ Caution

- Install this unit in the console of your vehicle. Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

Note

- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12 V or 24 V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON (“There is an error in the speaker wiring. Please check the connections.” is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car’s ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the

ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.

- If the console has a lid, make sure to install the unit so that the front panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ¤ wires [⊖] or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the [⊕] connector of the left speaker to a front output terminal, do not connect the [⊖] connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- Reception may drop if there are metal objects near the Bluetooth antenna.

■ Supplied accessories for installation

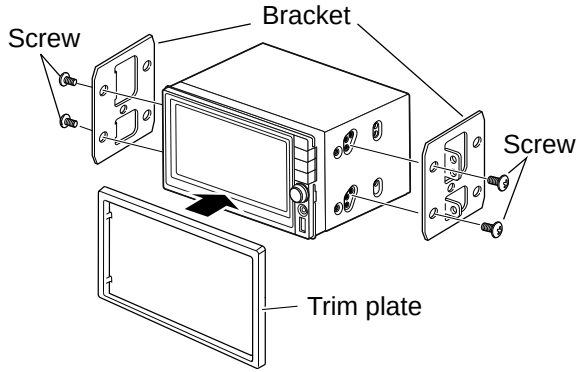
❶ Wiring harness for ISO-42P A 200MM
❷ Wiring harness for ISO-42P B 200MM
❸ Wiring harness for Camera-24P B 200MM
❹ Trim Ring (if provided)
❺ Bracket (if provided)
❻ Mounting Screw (if provided)

■ Installation procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the [⊖] terminal of the battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the wire on the wiring harness.
4. Connect each wiring harness connector to this unit.
5. Install this system in your car.
6. Reconnect the [⊖] terminal of the battery.

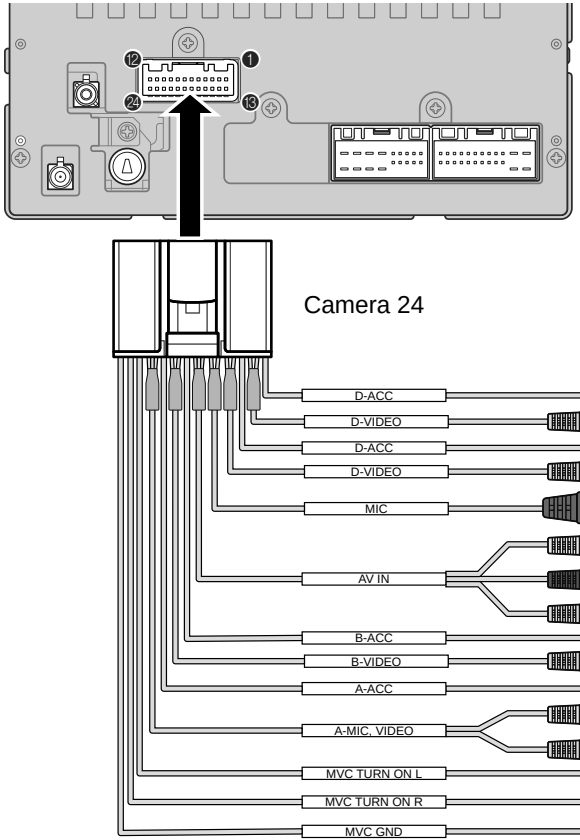
■ Installing the unit

Bracket / Trim plate *(if provided)*

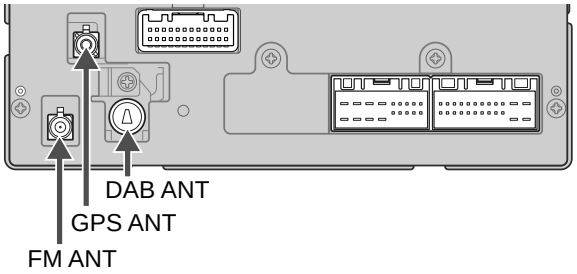


■ Connecting wires to terminals

Camera 24 pin

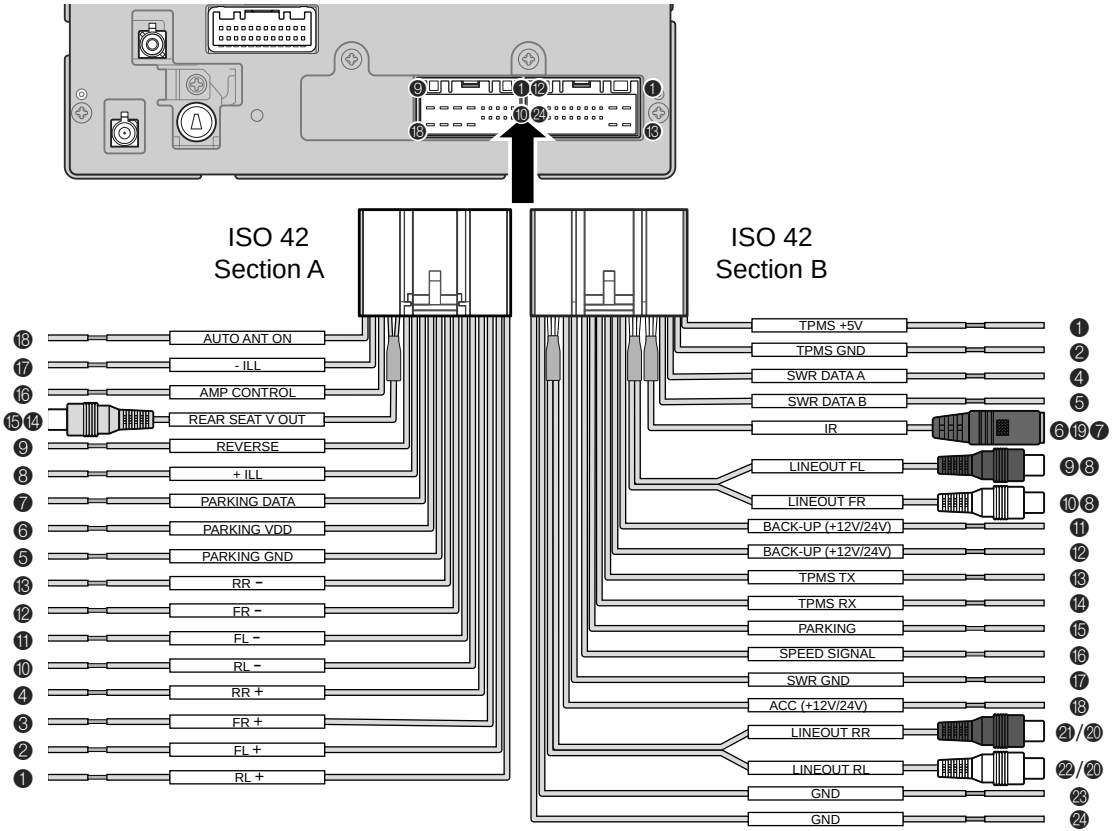


Antenna



❶ White: D-ACC <Supply wire Front Camera / Max. 100 mA>
❷/❸ Yellow RCA Jack Female: D-Video (CVBS) IN <Front Camera> / with GND Shield
❹ Brown: C-ACC <+ Supply wire Right Camera / Max. 100 mA>
❺/❻ Yellow RCA Jack Female: C-Video (CVBS) IN <Right Camera> / with GND Shield
❼/❽/❾ Black 3.5mm Socket: MIC (for external) + / - / with PWR 5 V
❿/⓬ White RCA Jack Female: MM Audio Left IN / with GND Shield
⓫/⓬ Red RCA Jack Female: MM Audio Right IN / with GND Shield
㉓/㉔ Yellow RCA Jack Female: MM Video IN / with GND Shield
⓭ Green: B-ACC<+ Supply wire Left Camera / Max. 100 mA>
⓮/⓯ Yellow RCA Jack Female: B-Video (CVBS) IN <Left Camera> / with GND Shield
⓰ Gray: A-ACC<+ Supply wire Reverse Camera / Max. 100 mA>
⓱/⓳ White RCA Jack Female: A-MIC <Reverse Camera MIC Input> / with GND Shield
⓲/⓳ Yellow RCA Jack Female: A-Video (CVBS) IN <Reverse Camera> / with GND Shield
⓴ Blue: MVCTurn ON Left <- Input>
㉑ Light-Green: MVC Turn ON Right <- Input>
㉒ Orange: MVC GND

ISO 42 pin


ISO 42
Section A
ISO 42
Section B
AUTO ANT ON
- ILL
AMP CONTROL
REAR SEAT V OUT
REVERSE
+ ILL
PARKING DATA
PARKING VDD
PARKING GND
RR −
FR −
FL −
RL −
RR +
FR +
FL +
RL +
TPMS +5V
TPMS GND
SWR DATA A
SWR DATA B
IR
LINEOUT FL
LINEOUT FR
BACK-UP (+12V/24V)
BACK-UP (+12V/24V)
TPMS TX
TPMS RX
PARKING
SPEED SIGNAL
SWR GND
ACC (+12V/24V)
LINEOUT RR
LINEOUT RL
GND
GND

ISO 42 pin Section A

⓲ Orange: Auto ANT ON <Max. 300 mA>
⓱ Light-Green: - Illumination
⓰ Blue: AMP Control <Max. 300 mA>
⓯/⓮ Yellow RCA Jack Female: Rear Seat Video Out / with GND shield
⓭ Violet: Rear Speaker Right -
⓬ Gray: Front Speaker Right -
⓫ White-Black: Front Speaker Left -
⓪ Green-Black: Rear Speaker Left -
❾ Brown: Reverse <Active High (+)>
❽ Gray: + Illumination
❼ White: Parking Sensor Data
❻ Violet: Parking Sensor VDD
❺ Sky-Blue: Parking Sensor GND
❹ Violet: Rear Speaker Right +
❸ Gray: Front Speaker Right +
❷ White: Front Speaker Left +
❶ Green: Rear Speaker Left +

ISO 42 pin Section B

❶ Pink: TPMS +5 V
❷ Sky-Blue: TPMS GND
❸ Not Connect
❹ Violet: Steering Wheel Rrmote Data A
❺ White: Steering Wheel Rrmote Data B
❻/❼/⓳ Black 3.5mm Socket: IR Data / + 5V / with GND shield
❾/❽ White RCA Jack Female: Line Out Front Left / with GND shield
⓪/❽ Red RCA Jack Female: Line Out Front Right / with GND shield
⓫ Yellow: Backup (+12 V or 24 V)
⓬ Yellow: Backup (+12 V or 24 V)
⓭ Light-Green: TPMS TX (RS232)
⓮ Orange: TPMS RX (RS232)
⓯ Pink: Parking Brake <Active High (+)>
⓰ Sky-Blue: Speed Signal
⓱ Vioiet: Steering Wheel Rrmote GND
⓲ Red: ACC (+ 12 V or 24 V)
㉑/⓴ Red RCA Jack Female: Line Out Rear Left / with GND shield
㉒/⓴ White RCA Jack Female: Line Out Rear Right / with GND shield
㉓ Black: GND
㉔ Black: GND

Common Issues

1 Errors which occur during the operation or installation of the device may be mistaken as a device malfunction.

2 If you are having problems with the device, try the suggestions listed below.

3 If the problems persist, contact your OzNav dealer.

Problem	Possible Cause
There are small red, blue or green dots on the screen	• Because the LCD is manufactured with technology requiring high point density, a pixel or lighting deficiency may occur within 0.01% of total pixels
The sound or image is not working	• Has the Switch been turned to [ACC] or [ON]? • Has the SYSTEM been turned OFF?
The screen is being displayed but sound is not working	• Has the volume been set to a low level? • Has the volume been muted?
When the power is turned on, the corners of the screen are dark	• It is normal with LCD panels for the display to appear somewhat dark after prolonged periods of use. It is not a malfunction • If the screen is very dark, contact your nearest OzNav dealer for assistance
Sound is only coming from one speaker	• Are the positions of Fader or Balance sound controls adjusted to only one side?
Sound does not work in AUX mode	• Are the audio connector jacks fully inserted into the AUX terminal?
The external device is not working	• Is the external device connected with a standard connector cable?
When turning the power on, the most recent mode screen is not displayed	Within modes that play files by reading external sources, such as USB, iPod or Bluetooth streaming mode, the most recently played mode screen prior to turning off power may not properly load • If there is no disc or the corresponding device is not connected, the mode operated prior to the most recent mode will operate • If the previous mode still cannot be properly played, the mode operated prior to that will operate

Troubleshooting

Problem	Possible Cause	Solution
The power does not turn on	The fuse is disconnected	• Replace with a suitable fuse • If the fuse disconnects again, please contact your point of purchase or service center
	Device is not properly connected	• Check that the device has been properly connected
The system does not play	The vehicle battery is low	• Charge the battery. If the problem persists, contact your point of purchase or service center
The image Colour/tone quality is low	• The brightness, saturation, hue and contrast levels are not set properly	• Adjust the brightness, saturation, hue and contrast levels in Display Setup
Sound is not working	• The volume level is set to the lowest level • The connection is not correct • The device is currently fast-forwarding, rewinding, scanning or playing in slow motion	• Adjust the volume level • Check that the device has been properly connected • The sound will not work when the device is fast-forwarding, rewinding, scanning or playing in slow motion
USB does not work	• USB memory is damaged	• Please use the USB after formatting it.
	• USB memory has been contaminated	• Remove any foreign substances on the contact surface of the USB memory and multimedia terminal
USB does not work	• A separately purchased USB HUB is being used	• Directly connect the USB memory with the multimedia terminal on the vehicle
	• A USB extension cable is being used	• Directly connect the USB memory with the multimedia terminal on the vehicle
	• A USB which is not a Metal Cover Type USB Memory is being used	• Use standard USB memory
	• HDD type, CF, SD Memory is being used	• Use standard USB memory
	• There are no music files which can be played	• Only MP3, WMA file formats are supported. Please use only the supported music file formats
The iPod is not recognized even though it has been connected	• There are no titles that can be played	• Use iTunes to download and save MP3 files onto the iPod
	• The iPod firmware version has not been properly updated	• Use iTunes to update the firmware version and reconnect the iPod to the device
	• The iPod device does not recognize down loads	• Reset the iPod and reconnect to the device
Bluetooth does not work or its limited functions are available	• Bluetooth on your mobile phone is set to OFF	• Set it to ON
	• The Bluetooth connection is not made	• Make the connection active

Problem	Possible Cause	Solution
Apple CarPlay does not start.	• Your iPhone does not support Apple CarPlay.	• Check the supported iOS version. (See page 24)
This system freezes while using Apple CarPlay.	• There is a connection problem between the iPhone and this system.	• Disconnect the iPhone, turn it off, and then turn it on again.
		• Reconnect the iPhone to this system.
The Android Auto does not start.	• Your Android phone is not compatible with the Android Auto.	• Check the compatible Android OS version. (See page 28)

Limited Warranty

ORIGINAL AUDIO/VIDEO NAVIGATION INFOTAINMENT SYSTEM SUPPLIED BY VEHICLE DEALER

Product :

Product No. :

■ WHAT THIS WARRANTY COVERS

1 Vehicle Dealer Shop ("Dealer") warrants to you that the Hardware will be free from defects in workmanship and materials under Normal use ("Defects") for a period of two (2) years from the original date of purchase ("Warranty Period"). During the Warranty Period the Hardware will be repaired or replaced at DEALER's choice ("Limited Warranty") without charge to you for either parts or labour. This Limited Warranty covers the replacement of the head unit including of the Hardware only.

■ WHAT THIS WARRANTY DOES NOT COVER

2 The Limited Warranty does not apply to normal wear and tear, does not apply when the Hardware is opened or repaired by someone not authorised by DEALER and does not cover repair or replacement of any Hardware or part thereof damaged by: misuse, moisture, liquids, proximity or exposure to heat and accident, abuse, non-compliance with the instructions supplied with the Hardware, neglect or misapplication.

The Limited Warranty does not cover physical damage to the surface of the Hardware. This Limited Warranty does not cover any software that may accompany or be installed on the Hardware.

The Limited Warranty does not cover the installation, removal or maintenance of the Hardware or any costs related herewith.

■ HOW TO MAKE A WARRANTY CLAIM

3 In order to make a claim of a Defect, you must contact DEALER. If a defect arises and a valid claim under this Limited Warranty is received by DEALER. After the warranty Period, DEALER is entitled to charge you for any reasonable shipping and handling costs made in connection with the repair or replacement of the Hardware.

You must comply with any other return procedures stipulated by DEALER, if any.

■ DEALER LIMITED WARRANTY YOUR LEGAL RIGHTS

4 Some countries may not allow the exclusion or limitation of damages. If any part of this Limited Warranty is held to be invalid or unenforceable, the remainder of the Limited Warranty shall nonetheless remain in full force and effect.

5 This Limited Warranty is the only express warranty made to you and is provided in place of any other express warranties or similar obligations (if any) created by any advertising, documentation, packaging, or other communications.

6 Except for the Limited Warranty and to the maximum extent permitted by applicable law, DEALER and its suppliers provide the Hardware "AS IS AND WITH ALL FAULTS", and hereby disclaim all other warranties and conditions, whether express, implied or statutory, including, but not limited to, any (if any) implied warranties, duties or conditions of satisfactory quality, of fitness for a particular purpose, of reliability or availability, of accuracy or completeness of responses, of results, of workmanlike effort, of lack of viruses, and of reasonable care and skill, all with regard to the Hardware, and the provision of or failure to provide support or other services, information, software, and related content through the Hardware or otherwise arising out of the use of the Hardware. Also, there is no warranty or condition of quiet enjoyment, quiet possession, or non-infringement with regard to the Hardware.

7 This Limited Warranty does not affect any legal rights under applicable national legislation governing the sale of consumer goods.

8 This Limited Warranty cannot be transferred to any other person.

■ LIMITATION OF LIABILITY

9 Neither DEALER nor its suppliers shall be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise (including in each case, but not limited to, damages for the inability to use the equipment or access data, loss of data, loss of business, loss of profits, business interruption or the like) arising out of the use of or inability to use the Hardware even if DEALER has been advised of the possibility of such damages.

10 Notwithstanding any damages that you might incur for any reason whatsoever, the entire liability of DEALER and any of its suppliers shall be limited to the amount actually paid by you for the Hardware.

11 DEALER shall not be liable for
- any fraud on the part of its employees and/or agents; or
- any fraudulent misrepresentation on the part of its employees and/or agents.

12 Notwithstanding the above, neither party's liability for death or personal injury resulting from its own negligence shall be limited.

Memo

MANUAL/ZX-N3000H/AVN/100GB

3264-00195

For replacements parts & compatible add-on accessories like TPMS,
please visit www.oznav.com.au.3264-00195