6.5-INCH NAVIGATION / DVD RECEIVER

- OWNER'S MANUAL Please read before using this equipment.
- MODE D'EMPLOI
 Veuillez lire avant d'utiliser cet appareil.
- MANUAL DE OPERACIÓN Léalo antes de utilizar este equipo.

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Operating Instructions

PRECAUTIONS

IMPORTANT INFORMATION : PLEASE READ CAREFULLY BEFORE USING THIS PRODUCT.

- This product is not a substitute for your personal judgement. Any route suggestions made by this navigation system should never supersede any local traffic regulations or your personal judgement and/or knowledge of safe driving practises. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal manceuvre, places you in an unsafe situation, or routes you into an area which you consider unsafe.
- Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, stop in a safe and legal manner and location.
- Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor while you are driving. Stop in a safe and legal manner and location before attempting to access the system.
- When using the navigation system to find/route to an emergency service, please contact the facility to validate and verify availability, prior to driving to it. Not all locations of emergency service providers such as police and fire stations, hospitals, and clinics are contained in the database. Please use your own judgement and your ability to ask for directions in these situations.
- The map database used in the navigation system is the most recent map data available at the time of production. Because of changes in streets and neighbourhoods, there may be situations where the navigation system may not be able to route you to your desired destination. In these cases, use your own personal judgement.
- The map database is designed to provide you with route suggestions, it does not take account of the relative safety of a suggested route, or of factors which may affect the time required to reach your destination. The system does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your personal judgement if the navigation system is unable to provide you with an alternate route.
- There may be situations where the navigation system may display the vehicle's location erroneously. Use your own driving judgement in this situation, taking into account current driving conditions.
 Please be aware that in this situation, the navigation system should correct the vehicle's position automatically; however, there may be times where you may have to correct the position yourself. If this is the case, stop in a safe and legal manner and location before attempting operation.

- Make certain that the volume level of the unit is set to a level which still allows you to hear outside traffic and emergency vehicles. Driving while unable to hear outside sounds could cause an accident.
- Please make certain that any other person who intends on using this navigation system reads these precautions and the following instructions carefully.

If there is anything in the manual about the operation of the navigation system which you are uncertain about, please contact your local Alpine authorised navigation dealer before using the navigation system.

- Read this manual carefully before using this disc and the system components. They contain instructions on how to use this product in a safe and effective manner. Alpine cannot be responsible for problems resulting from failure to observe the instructions in this manual.
- This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. Following are the meanings of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.

- Operation of the system while driving is dangerous. Users should stop vehicle before operating the software.
- Road conditions and regulations take precedence over information contained on the map display: observe actual traffic restrictions and circumstances while driving.
- This software is designed for use exclusively in the unit. It cannot and may not be used in conjunction with other hardware.

\land WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

INSTALL THE PRODUCT CORRECTLY SO THAT THE DRIVER CANNOT WATCH TV/VIDEO UNLESS THE VEHICLE IS STOPPED AND THE PARKING BRAKE IS APPLIED.

It is dangerous for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

DO NOT WATCH VIDEO WHILE DRIVING.

Watching the video may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANEUVER, OR PLACES YOU IN AN UNSAFE SITUATION OR AREA.

This product is not a substitute for your personal judgement. Any route suggestions by this system should never supersede any local traffic regulations or your personal judgement or knowledge of safe driving practice.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Temperature

Be sure the temperature inside the vehicle is between +45°C (+113°F) and 0°C (+32°F) before turning your unit on.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Protecting the USB connector

- Only compatible smartphones, iPods or USB Flash drives can be connected to the USB connector on this unit. Correct performance using other USB products cannot be guaranteed.
- If the USB connector is used, be sure to use only the supplied connector cable with the unit. A USB hub is not supported.
- Depending on the connected USB flash drive, the unit may not function or some functions may not be performed.
- The audio file format that can be played back on the unit is MP3/ WMA/AAC/FLAC/OGG/APE/MP2.
- Artist/song name, etc., can be displayed. Certain, special characters may not be correctly displayed.

A CAUTION

Alpine shall not be responsible for lost data even if such data is lost while using this product.

On Handling USB Flash drive

- This unit can control a memory storage device that supports the USB Mass Storage Class (MSC) protocol. Playable audio file formats are MP3, WMA, AAC, OGG, APE, MP2 and FLAC.
- USB Flash drive function is not guaranteed. Use USB flash drive according to the terms of agreement. Read the USB flash drive Owner's Manual thoroughly.
- · Avoid usage or storage in the following locations:

Anywhere in the car exposed to direct sunlight or high temperatures.

Anywhere the possibility of high humidity or corrosive substances are present.

- Fix the USB flash drive in a location where driver operation will not be hindered.
- USB Flash drive may not function correctly at high or low temperature.
- Use only certified USB flash drive. Note that even certified USB flash drive, may not function correctly depending on its type or state.
- Depending on the settings of the USB flash drive type, memory state or encoding software, the unit may not play back or display properly.
- USB Flash drive may take time to start playback. If there is a
 particular file other than audio in the USB flash drive, it may take
 considerable time before the file is played back or searched.
- The unit can play back MP3, WMA, AAC, OGG, APE, MP2 or FLAC file extensions.
- Do not add the above extensions to a file other than audio data. This non-audio data will not be recognized. The resulting playback may contain noise that can damage speakers and/or amplifiers.
- It is recommended to back up important data on a personal computer.
- Do not remove the USB device while playback is in progress. Change SOURCE to something other than USB, then remove the USB device to prevent possible damage to its memory.

Copyrights and Trademarks

- "Made for iPod," and "Made for iPhone," mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.
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Key Features

Key System Features

My Menu

Frequently used functions such as the Audio or Navigation mode can be easily recalled by adding them to the My Menu screen. For details, see "My Menu Function" (page 16).

My Menu Screen Example



- Frequently used functions and useful functions can be customized for your convenience.
- · Up to eight items can be added to My Menu.
- · You cannot add the same feature more than once.



Swiping the Touch Screen

You can change a screen or a page by swiping the touch screen vertically or horizontally with your finger. For details, see "Touch Screen Operation" (page 13).

USB Music Screen Example

Swipe the display with your finger lightly.



About Dual Screen

Dual Screen allows you to display the Navigation and Audio/Visual screens simultaneously.

Dual Screen



Getting Started

Components and Features

INE-W970HD



① Q Sound Settings or Eject button

Displays the Tone/Fader/Balance settings screen. Press and hold this button to eject Disc.

② UOICE button

Depending on the connected smartphone, press to call Siri function or voice recognition mode.

3 (A) NAV button

From an Audio system screen, press this button to recall the the last screen of the Navigation System.

Press again to switch to Navigation menu screen.

Press and hold this button for at least 2 seconds to change to Go Home route screen. (If Home is not set yet, it will change to the Home setting screen.)

For details of navigation operations, refer to "Navigation System OM (Owner's Manual)".

Recalls the connected smartphone's map screen.

Depending on the smartphone, this function may not be available.

④ ■ ALL MENUS or (Power Off) button

Recalls the All Menus screen. Press and hold this button for at least 2 seconds to turn the power off.

⑤ ♪ (AUDIO) or -MUTE (MUTE) button

Displays the Audio/Visual screen. When pressed and held, mutes the volume.

⑥ +/- button

Press to adjust the volume.

⑦ Remote Sensor

Point the remote control transmitter towards the remote sensor within a range of 2 meters.

⑧ Disc insert slot

Inserts/ejects discs

9 RESET switch

The system of this unit is reset.

About the button descriptions used in this Owner's Manual

The buttons found on the face of the unit are expressed in bold (e.g. MENU). The buttons found on the touch-screen display are shown in bold within brackets, [] (e.g. [x]).

Turning Power On/Off

Some of this unit's functions cannot be performed while the vehicle is in motion. Be sure to stop your vehicle in a safe location and apply the parking brake before attempting these operations.

Turn the ignition key to the ACC or ON position.

The system turns on.

 When turned on, the system displays the last screen that was displayed before the ignition key was turned off. For example, if the unit is in radio mode when ignition is turned off, it will remain in radio mode when ignition is turned back on.

Press and hold the ALL MENUS/(Power Off)

button for more than 2 seconds to turn the power off.

- · The unit can be turned on by pressing any button.
- The unit is a precision device. Careful handling of the unit should provide you with years of trouble-free operation.

Turning the System On





With the Alpine system, the home screen is displayed automatically when the ignition key is turned to ACC or ON.

When the system is used for the first time, the language selection menu is displayed. Swipe the Language list screen vertically, then touch your choice from the list of 3 languages.

 Some of this unit's functions cannot be performed while the vehicle is in motion. Be sure to stop your vehicle in a safe location and apply the parking brake before attempting these operations.

Resetting the System

Be sure to press the RESET switch when using the unit for the first time, after changing the car battery, etc.

Turn off the unit power.

2

Press the RESET switch with a ballpoint pen or similar pointed object.



Adjusting the Volume

Adjust the volume by pressing the [+ -] button. Volume increases/ decreases continuously by pressing and holding the [+ -] button. Volume: 0 - 35

Muting the Volume

Audio Mute function instantly lowers the volume level to 0.

Press and hold the $\sum_{i=1}^{\infty}$ AUDIO button.

The Audio level will be 0.

Touch Screen Operation

You can operate the system by using the touch panel on the screen.

 Be sure to touch the onscreen button lightly with the pad of your finger to avoid scratching the display.

Touch Operation

Touch a button or list item on the screen lightly.



- · If you touch a button and there is no reaction, remove your finger.
- · Onscreen buttons that cannot be operated are dimmed.

Swipe Operation

To scroll through multiple screens, move your finger lightly with a swipe left or right.



Drag & Drop operation

Touch and hold the desired item, then drag it to its new location by moving your finger, then release your finger to place the item.



 It is not possible to narrow the screen with two fingers (pinch in) or spread the screen (pinch out).

Sound Settings

Press the (Sound Settings) button to adjust sounds.

The Tone/Fader/Balance settings screen will be displayed.



- ① Buttons for Tone Level
- 2 Balance/Fader Area
- **③ Button for Center Position**

Use the +, -, \blacktriangle , \blacktriangledown , \blacklozenge , \blacklozenge , and \bigcirc buttons to adjust settings.

Touch 🚼 to restore sound to the Center position.

Voice Recognition

You can use the Siri or Google Assistant voice function of your iPhone/Android phone.

Connect your phone and activate Apple CarPlay or Android Auto.

2

Press the Uvice button to start voice recognition.

Say the command.

Switching Sources

Press the \int_{MR}^{400} (AUDIO) button to change the source.

Switching Sources Using the 🖉 AUDIO button

During audio/visual playback, press the \int_{am}^{bm} (AUDIO) button repeatedly to switch to the desired source.

 $\begin{array}{l} \mathsf{Radio} \to \mathsf{USB} \ \mathsf{Music} \to \mathsf{USB} \ \mathsf{Video} \to \mathsf{AUX} \to \mathsf{HDMI} \to \mathsf{Disc} \to \\ \mathsf{Bluetooth} \ \mathsf{Audio} \to \mathsf{Radio} \end{array}$

- *1 When no USB flash drive/iPod/HDMI device/Smartphone/Bluetooth compatible device is connected, USB Music will be skipped.
- *2 The name of the HDMI or AUX device will be displayed.
- *3 When AUX is set to "Off," USB Music will be skipped.
- *4 Available when Apple CarPlay is used/Android smartphone which installed Android Auto App is connected.

To play Apple CarPlay music shall impact iPod source when an iPhone 5 or later is connected and vice versa. Refer to "Setting Apple CarPlay".

Switching Sources from the All Menus Screen



Press the All Menus button. The menu screen is displayed.

You can also display the menu screen by touching [All Menus] on home screen.





Touch your desired media source.

Inputting Text (Keypad)

The displayed screens and procedures may vary slightly depending on the function used, but the basic input method is the same.



1 Text Entry Box

- ② Current Keypad
- 3 Shift Key

④ Delete Key

Press once to delete the last character. Press and hold to quickly delete several characters.

⑤ Hide the Keypad

⑥ Numeric Keypad

Press to display the numeric keypad.

⑦ Alpha Keypad

Press to display the alphabetic keypad

- 8 Space Key
- 9 Enter Key

Information Display on the Status Bar

Displays the date and time along with the system status shown by the various icons to the right of the clock.

The icons in the following table indicate the various types of system status details and events.

0	2	345
Â	12:00	mé, ti

Goes to the Home Screen.

I

② Clock

You can switch between the 12 hour display and 24 hour display options.

For details on clock display settings, refer to "Setting the Clock Display" (page 75).

Battery level of connected Bluetooth device.

Battery	No	Level	Level	Level	Level	Level
Level	Battery	1	2	3	4	5
Icon						

This feature may not be supported for some Bluetooth devices. The system will sound an alarm when the battery level decreases by one level.

④ Enabled when Bluetooth device is connected and connection is set to ON. Disabled when disconnected or connection is set to OFF



3 : Bluetooth connection to audio device 10 : Bluetooth connection to Handsfree Phone Blinks while

reconnecting.

(5) Signal strength of connected Bluetooth device.

This feature becomes enabled	I when Bluetooth	setting is ON.
------------------------------	------------------	----------------

	No Service	1	2	3	4	5	6
lcon	ľ×	T	T	T	Tul.	Tull.	Tul

Home Screen

Touch 🏠 .



① Navigation Widget

When the Navi widget is booting, the clock is displayed on the screen while the Navi widget is being prepared. Once preparation is complete, the Navi widget is displayed.

2 AV Widget

Displays brief information of radio or media currently playing. Touch the area to move to the media screen currently playing.

③ All Menus

Shows all of the items in the system menu.

④ Setup

5 My Menu

Moves to the My Menu screen. Add your Favorite menus to have quick and easy access.

• The NAVI widget is displayed when a NAVI SD card is inserted.

Adding Your Favorite Menu Items to My Menu

In the Home screen, touch [My Menu] \rightarrow [Edit].



2

From the Edit My Menu screen, select menu items from the list on the right, then drag and drop them to the desired place on the left.

♠ 12:00	(
Edit My Menu		
You can add, delete or more apps by dragging the icons. A maximum of 8 menus can be saved.	\mathbb{R}	Radio
		SiriusXM
	1	DISC
if the	8	Bluetooth Audio
	0	Apple CarPlay

· Up to eight items can be added to My Menu.

All Menus Screen

The Menu screen displays all of the available modes that can be selected to operate the system.

Press the All Menus button. The menu screen is displayed.



Menu Screen example







- Radio button Displays the Radio screen. (page 18)
- ② SiriusXM button Displays the SiriusXM screen. (page 22)
- ③ DISC button Displays the DISC screen. (page 28)
- ④ Bluetooth Audio button Displays the Bluetooth Audio screen. (page 53)
- (5) My Menu button Displays the My Menu screen. (page 11)
- 6 Apple CarPlay Displays the Apple CarPlay screen. (page 49)
- ⑦ Android Auto Displays the Android Auto screen. (page 49)
- Below Bel
- ③ USB Music button Displays the USB Music screen. (page 40)
- **USB Video button** Displays the USB Video screen. (page 43)
- ① USB Image button Displays the USB Image screen. (page 46)
- Camera button Displays the Camera screen. (page 86)
- (3) HDMI Displays the HDMI screen.(page 50)
- AUX button Displays the AUX screen. (page 51)
- (5) iPod button Displays the iPod screen. (page 47)
- (6) Setup button Displays the Setup screen. (page 64)
- ⑦ Navigation button Displays the Navigation screen. Refer to the Map Manual for more information.

Radio/HD Radio

The unit can receive HD Radio signals based on digital radio broadcast standards, in addition to analog radio broadcasts using RBDS.

HD Radio signals are broadcast in the service areas of the current AM/FM broadcasters where they provide digital audio distribution and data services. This unit receives the above digital broadcasts for your highquality sound enjoyment.

Depending on the signal strength in TUNER mode, the unit will automatically switch between digital signals if they can be received, and analog radio using RBDS if digital signals cannot be received. For details, please see "HD Radio On/Off".

· RBDS mode is only available during FM broadcast reception.

Radio/HD Radio Main Screen







<When HD Radio is turned off>

① Radio Band Tab

If you select the desired tab, the selected Radio mode will operate.

- ② Menu (Sound Settings)
- **③ Displays the Previous Screen**

④ Album Art

Image priority : 1st Album Art, 2nd Channel image, 3rd Default image

⑤ Information Display

Displays information such as frequency, station name, preset number, live mode, HD radio channel, song title, artist name and album title

- ⑥ Decreases Frequency
- ⑦ Displays the preset screen

⑧ Changes Tuning Mode

Switches the tuning mode used to search radio Broadcasts between Manual Tune, Preset, or DX Seek.

- 9 Displays the list screen
- 10 HD Radio
- 1 Increases Frequency

Listening to FM/AM Radio

Press the All Menus to button → touch [Radio].
Or In the Home screen, touch [All Menus] → [Radio].

Press the desired band tab.

3

4



- DX Seek: both strong and weak broadcasts will be tuned in.
- Manual: the frequency is manually tuned in steps.
- Preset: directly switches preset broadcasts.

Press < < or >> and change the desired
Broadcast.

Selecting Radio Broadcast

Selecting Broadcasts from Presets



2 From the presets, select the Broadcast you want to listen to.

Selecting Broadcast from List







From the lists, select the frequency you want to listen to.

FM/AM lists are manually updated by pressing O .

Saving Radio Broadcast to Presets

This feature is used to manually save the current broadcast to the desired preset number.



 3
 Press and Hold
 4
 Press and Hold

 5
 Press and Hold
 6
 Press and Hold

 7
 Press and Hold
 8
 Press and Hold

 9
 Press and Hold
 10
 Press and Hold

Press and hold the [Press and Hold] area or the desired number area you want to save.

A total of 20 presets can be stored in the preset memory for each band (FM, AM).

- In the List screen, you can also save the channel to preset by pressing
- If a preset memory has already been set in the same preset number, it will be cleared and the new broadcast will be memorized.
- In the Presets screen, you can delete the saved presets. Press [Menu] → [Delete all].

Using Preset Menu

This feature is used to manually save the current broadcast to the desired preset number.



0	▲ 12:00 (•) Preset.				
	🖬 88.1 MHz	2	P Tune ind Hold		
	Press and Hold	4	PSavend Hold		
	Press and Hold	6			
	Press and Hold	8	Press and Hold		
	Press and Hold	10	Press and Hold		

Select the desired option.

- [Tune]: Plays the selected preset frequency.
- [Save]: Overwrites the preset frequency with the current broadcast frequency.
- · [Delete]: Clears the selected preset.

Using Ballgame Mode (HD Radio[™] Mode only)

In live broadcast, such as sportscasts, etc., a time lag occurs between digital sound and analog sound. Therefore, when live broadcasts are received, a time lag between the real broadcast may occur and the unit can change to analog broadcasting automatically.



The LIVE Indicator is displayed when Ballgame Mode is set to "On."

 When receiving a live broadcast while the Ballgame mode is on, the LIVE indicator is highlighted.

HD Radio On/Off

Touch 🔟 .

Select [On] to display HD Radio stations. HD Radio Reception & Channel number will be displayed.

If you want to turn off HD Radio, Press [HD Radio] \rightarrow [Off].

You can save a total of 20 stations or broadcasts as presets for each band (FM, AM).

· HD Radio is supported in USA only.

Sound Settings

Touch \blacksquare \rightarrow [Sound Settings] For details, refer to the "Sound" on the page 68.

About the Feature Logos

Digital Sound

HD Radio broadcasts deliver crystal clear digital audio quality to consumers.

Program Info

• Program Info provides song name, artist, station ID, and other relevant data to the receiver.

HD2/HD3

Adjacent to traditional main stations are HD2/HD3 Channels, providing new original formats on the FM dial.

Artist Experience

 Visual images, such as album art and station logos, of over-the-air broadcasts from HD Radio stations.

SiriusXM

About SiriusXM Satellite Radio

Only SiriusXM[®] brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www. siriusxm.com.

- The SiriusXM Satellite Radio controls on this unit are available only when a SiriusXM Tuner is connected.
- Refer to the SiriusXM Tuner User Guide for details on how to install the SiriusXM Tuner.

Activating your SiriusXM Subscription

After installing your SiriusXM Connect Vehicle Tuner and antenna, power on your system and select SiriusXM mode. You should be able to hear the SiriusXM preview channel on Channel 1. If you cannot hear the preview channel, please check the installation instructions to make sure your SiriusXM Connect tuner is properly installed.

After you can hear the preview channel, tune to Channel 0 to find the Radio ID of your tuner. In addition, the Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner and its packaging. You will need this number to activate your subscription. Write the number down for reference.

• The SiriusXM Radio ID does not include the letters I, O, S or F.

In the USA, you can activate online or by calling SiriusXM Listener care:

- · Visit www.siriusxm.com/activatenow
- · Call SiriusXM Listener Care at 1-866-635-2349

For Canadian Subscriptions, please contact:

- Visit www.siriusxm.ca/activatexm
- · Call SiriusXM Customer Care at 1-888-539-7474

As part of the activation process, the SiriusXM satellites will send an activation message to your tuner. When your radio detects that the tuner has received the activation message, your radio will display: "Subscription Updated". Once subscribed, you can tune to channels in your subscription plan. Note, the activation process usually takes 10 to 15 minutes, but may take up to an hour. Your radio will need to be powered on and receiving the SiriusXM signal to receive the activation message.

SiriusXM Radio Main Screen



1 Menu

2 Displays the Previous Screen

3 Album Art

Displays the image that represents the currently received station When album art is not available, the channel logo or the SiriusXM logo will be displayed.

Compatible with SXV200 or later tuner models. Not all music channels contain album art images.

④ Indicators

Satellite Antenna Signal, Preset Number, \star Fav, Live

⑤ Information Display

Displays information such as channel name, channel number, category/artist/title/content info.

- 6 Channel Tune Down
- ⑦ Channel Tune Up
- ⑧ Time Difference

Displays the time difference between the live broadcast time and actual playing time.

9 Control Panel

Enables use of Skip Backward (by segment) / Skip Forward (by segment) Play/Pause/Rewind/Fast-forward features.

- ① Changes to the program currently being broadcast.
- 1 Displays the preset screen
- Displays the list screen
- (3) Direct Tune
- (1) Alert

Listening to SiriusXM Radio

Press the All Menus \blacksquare button \rightarrow Press

[SiriusXM].

Or In the Home screen, Press [All Menus] \rightarrow [SiriusXM].

2

Press | ◀ or ▶ | and change the desired channel.

Selecting Channels

- Selecting Channels from Presets
- Touch 📃 .



2 From the presets, select the channel you want to listen to.

Selecting Channel from List

Touch Q.





From the lists, select the desired channel you want to listen to.

Use the pull down menu to view list by Content, Title, Artist, or Channel.

Selecting Channels through Direct Tune

Touch 🏢 .





Enter the desired channel number.

From the search result, select the channel you want to listen to.

Parent Lock

The Parental Control feature allows you to limit access to any SiriusXM channels, including those with mature content. When enabled, the Parental Control feature requires you to enter a pass code to tune to the locked channels. Information on setting up the pass code and locking channels can be found below.

When a locked channel is selected, "Channel <xxx> Locked" is displayed and then the numeric keypad appears for you to enter the passcode.

Enter the 4-digit passcode you set in [Edit Code].

The initial number is 0000.

- For information on setting the Parent Lock Passcode, see "Setting Parent Lock" (page 80).
- If you enter the wrong passcode, "Incorrect Pass Code entered" is displayed.
- After entering the correct passcode, you can access all locked channels without entering the passcode again until the unit is powered off and then back on.
- The passcode is reset to '0000' upon restoring factory default settings.
- If there are no inputs for 10 seconds, the "Incorrect Passcode is entered" popup is displayed on the screen.

Saving Channel to Presets

This feature is used to manually save the current channel to the desired preset number.





Press and hold the [designated] area or the desired number area you want to save.

A total of 20 presets can be stored in the preset memory for each band.

- \star : none
- 🖈 : saved channels

: saved Smart Favorites channels (SVX200: number 1 to 6)

- In the List screen, you can also save the channel to preset by pressing
- If a preset memory has already been set in the same preset number, it will be cleared and the new broadcast will be memorized.
- In the Presets screen, you can delete the saved presets. Press [Menu] → [Delete all].

Smart Favorites

SiriusXM Vehicle Tuner automatically buffers the broadcast audio content of the Smart Favorites channels in the background for your Preset channels. SVX200: up to 6 SXV300: up to 20

Smart Favorites allow you to rewind and replay up to 60 minutes of any missed programming from your current Band of Preset channels.

Music channels that are Smart Favorites also support TuneStart™

Using Preset Menu

This feature is used to manually save the current station to the desired preset number.

Press and hold the preset list you want to edit. A menu allowing to you to tune, save or delete the preset is displayed.

♠ 12:00					
	Preset	1-			÷
1	008 80s on 8	*	2	PTuneind Hold	
3	009 90s on 9	*	4	PSaveind Hold	
5	011 KIIS	*	6	P Delete d Hold	
7	010 The Pulse	*	8	Press and Hold	
9	Press and Hold		10	Press and Hold	



• [Tune]: Plays the selected preset frequency.

- [Save]: Overwrites the preset frequency with the current broadcast frequency.
- · [Delete]: Clears the selected preset.

Channel List

This feature is used to search all channels using the sorting feature.



Select the desired sort.

♠ 12:00				
🗄 List	Channel - 📃 🗙			
All Channels	Content (243	()		
🕅 008 80s on 8	Title			
🕅 009 90s on 9		-		
1 010 The Pulse	Artist			
1 011 KIIS	Channel			
1 012 Z100/NY	\$	Ľ		



From the lists, select the desired channel you want to listen to.

Use the pull down menu to view list by Content, Title, Artist, or Channel.

- In the List screen, you can save the channel to preset by pressing
 .
- If you want to display current channel, Press [Menu] → [Show Current Channel].

Category

This feature is used to search channels within the desired category.



Touch $\equiv \rightarrow$ [Category]. Displays the category screen.





Select the desired category. The following list screen will be displayed.



 If you want to display current category, touch [Menu] → [Show Current Channel].

Press the current category title in the list screen to return to the Category screen.

Â				12:	00			
	Li	st		1-	Channel 👻	Ξ	×]
E.	Po	p			·		(12)	
	X	007	70s on 7				ģ	
	⁰ X ⁴	008	80s on 8		11/1/1	1	\$	
	⁰ X ⁰	009	90s on 9				\$	
	⁰ X ⁰	010	Pop2K			1	合	
	⁰ X ⁰	015	The Puls	e			\$	

Featured Favorites

When Featured Favorites have been updated, the following screen will be displayed.



Featured Favorites are groups of channels that are created by the SiriusXM Programming department allowing you to discover new channels.

Featured Favorite channels are dynamic and can change often, allowing you to discover new channels.

Featured Favorites function is always activated.

Information on accessing Featured Favorites can be found below.

Press [Category] → [Featured Favorites].

Featured Favorites categories are displayed after the Featured Favorites list is downloaded from SiriusXM.





Select the desired list.



TuneStart™

Use TuneStart to play music content from its beginning on programmed preset Channel. The user can, therefore, enjoy the full track (i.e. song) rather than hearing what's left from its current live playback position.

Touch 🔳 .



Check the [Tune Start] box to turn the feature on.

Press [Preset] to begin Tune Start mode.

The Replay mode will be started.





Touch [Preset] and select the desired preset channel.

During Tune Start mode, displays the time difference between the live broadcast time and actual playing time.

- Pressing ◀ (Track Up) or ► (Track Down) will move a track up/ down.
- To fast reverse, Press and hold | (Track Down) and to fast forward, Press and hold (Track Up)
- · Tune Start only applies to the first entry of track. If the same track is playing when it is changed to another channel and returned, change it to the Live state without changing to the Tune Start state.
- · This function is available only when SiriusXM Tuner-SXV200 is connected or later is connected. When Tuner-SXV200 is connected, this function is available only for Preset channels 1-6. When Tuner-SXV300 is connected, this function is available for all Preset channels
- · Preset Channels that play other than music-type content will start playing the channel from the current live play point when selected.

Replay™

In SiriusXM mode, you can pause, rewind and replay of live Satellite Radio.





Press [II] to pause the channel content.

Press [>] to resume the channel content.

Press vive to exit Replay and listen to live content.

- To fast reverse, Press and hold A and to fast forward, Press and hold .
- Pressing or will move a track up/down.
- · If you change channels while in Replay mode, the contents of the replay buffer are emptied.
- · The allowed recording time differs depending on the SiriusXM Tuner box.
- · Replay mode will end automatically when the time difference between the live broadcast time and actual playing time becomes 00:00

Saving Song/Artist Alert

Touch 🔍 .

This feature is used to add song and artist alerts.

While listening to SiriusXM Satellite Radio, you can be alerted when your favorite songs or artists are playing on other channels. A popup is displayed when a channel starts playing a song or artist saved.



2

Check the [Artist Name] or [Song Name] box to add the current song or artist to the list.

A popup is displayed when a channel starts playing a song or artist saved.



- · Tune: plays the corresponding channel.
- Active Alerts: displays My Music of the corresponding category.
- · Dismiss: displays the previous screen.





- · Up to 50 alerts can be saved to Favorites.
- "Artist Alerts and Song Alerts Not Available" appears on the display if both the artist and song is not available to be stored.
- "Artist (Song) Alerts Not Available" is displayed if just the artist (song) is not available to be stored.
- "Artist (Song) Saved" is displayed if this Artist (Song) was previously stored.
- When you try to save new Alert, but there is not enough memory space, "Alert Memory Full. Do You want to replace?" is displayed. If you select "YES," then the list of stored alert items is displayed. Press the item that you want to replace.
- For details, refer to "Setting Favorite Sports Team Alerts" on page 79.

Editing Song/Artist Alert

This feature is used to search channels within the desired category.





2 Check/uncheck the [Artist Name] or [Song Name] box to turn the alert on/off.



Press [Del] to delete the alert.

Sound Settings

Touch \equiv \rightarrow [Sound Settings] For details, refer to the "Sound" on the page 68.

SiriusXM User Data Reset

Press [Setup] \rightarrow [General] \rightarrow [Factory Reset]. This feature is used to reset SiriusXM Data.

Disc

\land WARNING

- It is dangerous for the driver to watch the DVD/Disc, Video/ Disc Image while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.
- Install the unit correctly so that the driver cannot watch DVD/ Disc Video/Disc Image unless the vehicle is stopped, and the parking brake is applied.
- If the unit is not installed correctly, the driver will be able to watch DVD/Disc Video/Disc Image while driving the vehicle and may be distracted and could cause an accident. The driver or other people could be severely injured.
- Video/Image are not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



A Caution

- Not all functions will operate for every Disc. See the individual Disc's instructions for details on the features supported.
- Fingerprints on a disc may adversely affect playback. If a problem occurs, remove the disc and check for fingerprints on the playback side. Clean the disc if necessary.
- 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 operations may lead to battery discharge.
- · Video CDs cannot be played.

Supported Disc Formats

	Supported Disc Formats	Disc Logo	Description
Γ	DVD Video	VIDEO	Displays discs with region codes of ALL or the corresponding region code.
Γ	Audio CD	disc	Plays normal music CDs.
	CD-R/RW		Plays discs recorded with music titles, WMA, and MP3 files.

DVD Region Codes

The DVD Player and DVD discs are assigned region codes. DVDs without the proper region codes as supported by this device are not supported. Check the table below for more information on DVD region codes.

Region code	Area
1	United States, Canada
2	Europe, Middle East, South Africa
3	South Korea
4	Latin America
5	Russia, Africa
6	Mainland China
All	Can be played in all regions

Disc Video

You can play Music/Video/Image files stored in a disc on the internal player of this system.

\land WARNING

- It is dangerous (and illegal in many countries) for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.
- Install the unit correctly so that the driver cannot watch video unless the vehicle is stopped, and the parking brake is applied.
- If the unit is not installed correctly, the driver will be able to watch video while driving the vehicle and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.
- Disc Video mode is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



Disc Video Main Screen



- 1 Menu (T) p menu, Sub menu
- ② Main Menu
- **③** Displays the Previous Screen
- ④ Chapter and Title Information
- **⑤** Chapter and Title Index
- 6 Play Time and Play Bar
- ⑦ Previous Chapter
- ⑧ Play/Pause
- 9 Repeat
- 1 Search
- 1 Next Chapter

Playing Disc Video Files

- Press the All Menus button → touch [DISC].
 Or in the Home screen, touch [All Menus] → [DISC].
- 2 Touch | << or >> | and select the desired file.
- Touch ▶ to play Disc video.
- While playing, touch **II** to pause Disc video.

Viewing in Full Screen

Touch the screen in a non-menu area to change to full screen. If you want to display the menu, touch the screen.

• If there are no operations for 10 seconds, the menu will automatically disappear.

Searching Disc Video Files

You can search the files in the List screen.



Touch Q to display Disc File list screen.





Touch [Video] and search the desired file.

Touch the desired file to play.

Fast-Forwarding or Rewinding a File

Using or b.



While playing, touch and hold | <- or >>> | .

Touch and hold for more than 1 second to rewind or fast-forward at high speed.

Release | **4** or **>>** | to play the file at normal speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Repeat

Touch \bigcirc to toggle between the modes.

- One File 🟳 : repeats play of currently playing file.

Shuffle

Touch $\stackrel{\scriptstyle \checkmark}{\scriptstyle \sim}$ to toggle between the modes.

- On 🔀 : plays all files in random order.

Sound Settings

Touch \blacksquare \rightarrow [Sound Settings] For details, refer to "Sound Settings" on page 68.

Visual Settings

Touch Ξ → [Visual Settings]

For details, refer to "Visual Settings" on page 73.

Supported Disc Video Format

Category	Description
File Format	AVI, MPG, FLV,DAT, VOB, MP4, MOV, OGG, ASF
Extensions	avi, mpg, mpeg,dat, flv, vob, mp4, mov, ogg, asf
Video Codec	MP4V, MPEG-1, MSVC, MPEG-1/MPEG-2, H.263,
Video	720*480/576 (30fps)
Resolution	Response Sampling Rate : 8,11.025, 16,22.05, 24, 32, 44.1, 48 KHz. Response Bitrate : 45~500Kbps. (WMA : 8K~48KHz, 16kbps~320kbps)
Audio Codec	Dolby Digital(AC3),WMA/PCM/LPCM,AAC LC (2ch),MPEG- Audio,(MP1/MP2/MP3) LPCM, uLaw/aLaw, OGG, WMA
Subtitles	SMI
Unsupported files	I. Video with OGG Audio formats other than Vorbis with OGG Vorbis format in AVI

Disc Music

You can play music files stored in a disc on the internal player of this system.

Disc Music Main Screen



- ① Displays the list screen
- 2 Menu
- **③** Displays the Previous Screen
- ④ Disc Music Icon
- (5) Current Song no. / Total Song no.
- **6** Information Display
- O Play Time and Play Bar
- 8 Previous File
- 9 Play/Pause
- 1 Repeat
- 1 Shuffle
- 12 Scan
- ③ Next File

Playing Disc Music Files

Press the All Menus \blacksquare button \rightarrow touch [DISC]. Or in the Home screen, touch [All Menus] \rightarrow [DISC].

2 Touch ▶ to play Disc music. While playing, touch III to pause Disc music.

Searching Disc Music Files

You can search the files in the List screen.

Touch Q to display Disc File list screen.

Â	12:00
🖲 List	
Video	ta VSOT
Music	de Track 1
	A Track 2
Image	Track 3
	A Track 4

2

Touch [Music] and search the desired file.



Touch the desired file to play.

Fast-Forwarding or Rewinding a File

Using or



While playing, touch and hold or >> .

Touch and hold for more than 1 second to rewind or fastforward at high speed.

Release or by to play the file at normal 4 speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Repeat

Touch C to toggle between the modes.

- Folder 😴 : repeats the files in the current folder.
- One File
 i: repeats play of currently playing file.
- All 😅 : repeats the all files in the Disc.

Shuffle

Touch X to toggle between the modes.

- Off 🖂 : turns the shuffle feature off.
- On 🔀 : plays all files in random order.

Sound Settings

Touch \blacksquare \rightarrow [Sound Settings] For details, refer to "Sound Settings" on page 68.

Supported Disc Music Format

Category	Description
File Format	MP3, WMA7, WMA8, WMA9
Extensions	mp3, wma
Bit rate	16kbps ~ 320 kbps
Sampling Rate	8K~ 48 KHz

Data CD – Image Disc

You can play Image files stored in a disc on the internal player of this system.

Disc Image Main Screen



- ① Displays the list screen
- 2 Menu
- **③** Displays the Previous Screen
- **④** Information Display
- 5 Current Image no. / Total Image no.
- 6 Previous File
- ⑦ Play/Pause
- 8 Repeat
- 9 Shuffle
- 1 Next File

Playing Disc Image Files

Press the All Menus \blacksquare button \rightarrow touch [DISC]. Or in the Home screen, touch [All Menus] \rightarrow [DISC].



- Touch $| \blacktriangleleft \blacksquare$ or > > | and select the desired file.
- о та
 - Touch ► to play Disc Image. While playing, touch II to pause Disc image.

Viewing in Full Screen

Touch the screen in a non-menu area to change to full screen. If you want to display the menu, touch the screen.

 If there are no operations for 10 seconds, the menu will automatically disappear.

Searching Disc Image Files

You can search the files in the List screen.



â	12:00
🕲 List	
Video	in Folder, Name 1
Music	nto File Name 2
lane and	A File Name 3
image	File Name 4
	File Name 5
	File Name 6



Touch [Image] and search the desired file.



Touch the desired file to play.

Repeat

Touch 💭 to toggle between the modes.

- Folder

 repeats the files in the current folder.
 One File

 repeats play of currently playing file.
- All 💭 : repeats the all files in the Disc.

Shuffle

Touch \propto to toggle the shuffle mode on or off.

- Off 🖂 : turns the shuffle feature off.
- On 💢 : plays all files in random order.

Visual Settings

Touch $\blacksquare \rightarrow$ [Visual Settings] For details, refer to the "Visual Settings" on the page 73.

Supported Disc Image Format

Category	Description	
File Format	JPEG, PNG, GIF, BMP	
Extensions	jpeg, png, gif, bmp	

Disc DVD

Disc DVD Main Screen



- ① Menu (Top menu, Sub menu)
- ② Main Menu
- **③ Displays the Previous Screen**
- ④ Chapter and Title Information
- **⑤** Chapter and Title Index
- ⁶ Play Time and Play Bar
- ⑦ Previous Chapter
- 8 Play/Pause
- 9 Repeat
- 1 Search
- 1 Screen ration (16:9/4:3 LB/4:4 PS)
- 12 Next Chapter

Playing a DVD

2

Press the All Menus button \rightarrow touch [DISC]. Or in the Home screen, touch [All Menus] \rightarrow [DISC].

- Touch I ← or ►► or select the desired Chapter.
- 3 Touch ▶ to play a DVD. While playing, touch II to pause a DVD.

Viewing in Full Screen

Touch the screen in a non-menu area to view the DVD in full screen.

- If you want to display the menu, touch the screen.
- If there are no operations for 10 seconds, the menu will automatically disappear.

Searching Chapters





Search the desired chapter.



Touch the desired chapter to play.

Fast-Forwarding or Rewinding a Chapter

Using or b.

While playing, touch and hold or . Touch and hold for more than 1 second to rewind or fastforward at high speed.

۷

Release | < < or >> | to play the chapter at normal speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Repeat

Touch Ċ to toggle between the modes.

- One Chapter 彭 : repeats play of currently playing chapter.
- All 😅 : repeats the all chapter in the current title.
Changing Screen Ratio

Touch [16:9/4:3LB/4:4PS] to toggle between the modes.

- 16 : 9: displays in 16:9 wide screen.
- 4 : 3 LB: displays in 4:3 screen ratio.
- 4 : 4 PS: displays in 4:4 screen ratio

Using Top Menu

Touch [Top Menu] to display Top Menu screen.



2 Touch the controller up/down/left/right directions to select the desired menu and touch Enter .

 The Top menu option can only be used within DVDs that support these features.

Using Sub Menu

Touch [Sub Menu] to display Top Menu screen.





Touch the controller in up/down/left/right directions to select the desired menu and touch

The Sub menu and DVD menu options can only be used within DVDs that support these features.

Changing Subtitle Language

Touch $\blacksquare \rightarrow$ [Subtitle].

^	12:00	1 parts	
	Subtitles		
Subtitle Off			
Korean			
C English			
Spanish			
ок		Cancel	



Select the desired language.

Supported caption languages may differ according to the DVD title.

Changing Voice Language

1	Tou	ch	→ [Aι	ıdio].			
		Â	1.	12:0)0		
				Audi	O MENU		
		🔘 Eng	lish				en la companya da companya
		🔘 Eng	lish				
		🔘 Spa	anish				
			ок		19	Cancel	



Select the desired language.

· Supported voice languages may differ according to the DVD title.

Supported Disc DVD Format

Category	Description
File Format	AVI, MPG, FLV, DAT, VOB, MP4, MOV, OGG, ASF
Extensions	avi, mpg, mpeg,dat, flv, vob, mp4, mov, ogg, asf
Video Codec	MP4V, MPEG-1, MSVC, MPEG-1/MPEG-2, H.263,
Video	720*480/576 (30fps)
Resolution	Response Sampling Rate : 8,11.025, 16,22.05, 24, 32, 44.1, 48 KHz. Response Bitrate : 45~500Kbps. (WMA : 8K~48KHz, 16kbps~320kbps)
Audio Codec	Dolby Digital(AC3),WMA/PCM/LPCM,AAC LC (2ch),MPEG- Audio,(MP1/MP2/MP3) LPCM, uLaw/aLaw, OGG, WMA
Subtitles	SMI
Unsupported files	Video with OGG Audio formats other than Vorbis with OGG Vorbis format in AVI

Audio CD

You can play music files stored in a disc on the internal player of this system.

Audio CD Main Screen



- ① Displays the list screen
- ② Displays the Previous Screen
- ③ Artwork Display
- ④ Current Song no. / Total Song no.
- **⑤** Information Display
- ⁶ Play Time and Play Bar
- ⑦ Previous Track
- 8 Play / Pause
- 9 Repeat
- 1 Shuffle
- 1 Scan
- 12 Next Track

Playing An Audio CD

Press the All Menus \blacksquare button \rightarrow touch [DISC]. Or in the Home screen, touch [All Menus] \rightarrow [DISC].



- Touch |◀◀ or ▶▶| or select the desired track.
- **0** 1
 - Touch ► to play Audio CD. While playing, touch to pause Audio CD.

Searching Tracks

You can search the tracks in the List screen.



Touch Q to display Audio CD list screen.



Search the desired track.

२ ^т

Touch the desired track to play.

Fast-Forwarding or Rewinding a Track

Scan

While playing, touch and hold or

Touch and hold for more than 1 second to rewind or fast-forward at high speed.

Release **4** or **b** to play the track at normal speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Repeat

Touch \bigcirc to toggle between the modes.

- One 🔂 : repeats play of currently playing track.
- All C : Repeats all of the tracks on the Audio CD.

Shuffle

Touch X to toggle the shuffle mode on or off.

- On 💢 : plays tracks in the Audio CD in random order.
- Off 🖂 : turns the shuffle feature off.

Touch O

The beginning part (approximately first 10 seconds) of all files within the current folder/category or the entire Audio CD are scanned.



- Scan G : Scans all files within the USB.
- Folder Scan G Scans all files within the current folder
- Off : turns the scan feature off.

Supported Audio CD Format

Category	Description	
File Format	MP3, WMA7, WMA8, WMA9	
Extensions	mp3, wma	
Bit rate	16kbps ~ 320 kbps	
Sampling Rate	8K~ 48 KHz	

USB Music

You can play back music files (MP3/WMA/AAC/FLAC/OGG/APE/ MP2) stored on a USB flash drive.

USB Music Main Screen



- ① Displays the list screen
- ② Menu (Add to Playlist, Sound Settings)
- $\ensuremath{\textcircled{}}$ 3 Displays the Previous Screen
- ④ Artwork Display
- (5) Current Song no. / Total Song no.
- 6 Information Display
- ⑦ Play Time and Play Bar
- 8 Previous File
- 9 Play / Pause
- 1 Repeat
- 1) Shuffle
- 12 Scan
- **13 Next File**

Playing USB Music Files

- Press the All Menus button → touch [USB Music]. Or in the Home screen, touch [All Menus] → [USB Music].
- 2 Touch | << or >> | and select the desired file. If play time is over 3 seconds, pressing | <= will p
 - If play time is over 3 seconds, pressing I will play the current file from the beginning.
- 3
- Touch ► to play USB music. While playing, touch II to pause USB music.

Searching USB Music Files

You can search the music file in the List screen.



Touch Q to display USB Music list screen.

2

Search the desired category and file. It is possible to search by File and Artist.



Touch the desired file to play.

 In the List screen, it is possible to add current song to playlist by touching → [Add to Playlist].

Fast-Forwarding or Rewinding a File



While playing, touch and hold or >> .

Touch and hold for more than 1 second to rewind or fastforward at 4x speed. Keep touching to switch the speed to 20x.

Release **4** or **b** to play the track at normal speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Repeat

Touch
to toggle between the modes.

- Category is repeats the files in the current category.
- One File
 : repeats play of currently playing file.
- All 🧭 : repeats the all files in the USB.

Shuffle

Touch 🔀 to toggle between the modes.

- On 🔀 : plays files in the current category in random order.
- Off 💢 : turns the shuffle feature off.

Scan

Touch 🕻 .

The beginning part (approximately first 10 seconds) of all files within the current folder/category or the entire USB are scanned.

2 Touch [Scan] to stop scanning.

- Scan 🕥 : Scans all files within the USB
- Folder Scan C : Scans all files within the current folder
- · Off : turns the scan feature off.

Adding a Song to a Playlist



While playing, touch $\blacksquare \rightarrow$ [Add to Playlist].

1

2 Select the desired songs and touch [Add].

Sound Settings

Touch \blacksquare \rightarrow [Sound Settings] For details, refer to "Sound Settings" on page 68.

Supported USB Music Format

Category	Description
File Format	MP3, WMA, AAC, FLAC, OGG, APE, MP2
Extensions	mp3, wma, aac, flac, ogg, ape, mp2
MP3 File Specification	Response Specification: MPEG AUDIO LAYER3 Response Sampling Frequency: 32, 44.1, 48 (KHz) Response Bitrate: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (Kbps) ID3 v1.1, ID3 v2.x TAG and ID3 v1.0
WMA File Specification	WMA9std, WMA10 Pro, and WMA9 Lossless Response Sampling rate : Up to 48 KHz Tag Information : WMA Tag Ver1.x
AAC File Specification	MPEG2 AAC-LC, MPEG4 AAC-LC, HE-AAC v1, and AAC v2 sampling rate : from 8kHz to 48kHz
FLAC File Specification	The version shall be 1.3.0. The corresponding sampling frequency is as follows: 8, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96 kHz Tag Information: According to the Vorbis description, and the character code is UTF-8
OGG File Specification	bit-rate : From Q-1 to Q10 sampling rate : Up to 48 KHz
APE File Specification	sampling rate - Up to 48 KHz
MP2 File Specification	MPEG-1/2 layer 2, Mono/Stereo 16-384Kbps bit-rate : CBR/VBR 16kbps ~ 384kbps sampling rate : up to 48KHz
id3/wma Tag	• ID3 v1.0, v1.1, v2.2, v2.3, v2.4 • WMA v1.x
Detailed Specification	Max Directory Layers: 15 layers Max length of folder names and file names: 255Bytes Characters supported for folder/file names: English and numbers Max number of files recognized from all USB device(music + video + image): 5,000

USB Video

You can play video files

(AVI/MKV/MP4/ASF/WMV/MPG/3GP/MOV/FLV) stored in a USB flash drive on the internal player of this system.

\land WARNING

- It is dangerous (and illegal in many countries) for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.
- Install the unit correctly so that the driver cannot watch video unless the vehicle is stopped, and the parking brake is applied.
- If the unit is not installed correctly, the driver will be able to watch video while driving the vehicle and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.
- USB Video is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



USB Video Main Screen



- ① Displays the list screen
- ② Menu (Caption, Sound Settings, Visual Settings)
- **③** Displays the Previous Screen
- ④ Information Display
- (5) Current Video no. / Total Video no.
- 6 Play Time and Play Bar
- ⑦ Previous File
- 8 Play / Pause
- 9 Repeat
- 1 Info
- 1 Screen ratio (WIDE/NORMAL)
- 12 Next File

Playing USB Video Files

Press the All Menus \blacksquare button \rightarrow touch [USB Video]. Or in the Home screen, touch [All Menus] \rightarrow [USB Video].

Touch |◀◀ or ▶▶| and select the desired file.

- If play time is over 3 seconds, pressing **I** will play the current file from the beginning.
- 2
 - Touch ▶ to play USB video.

While playing, touch II to pause USB video.

Viewing in Full Screen

Touch the screen in a non-menu area to change to full screen. If you want to display the menu, touch the screen.

• If there are no operations for 10 seconds, the menu will automatically disappear.

Searching USB Video Files

You can search the files in the List screen.







Search the desired folder and file.



Touch the desired file to play.

Fast-Forwarding or Rewinding a File

Using or by .

While playing, touch and hold **| <** or **>>|**. Touch and hold for more than 1 second to rewind or fastforward at 4x speed. Keep touching to switch the speed to 20x.

Release | << or >>> | to play the file at normal speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Repeat

Touch \bigcirc to toggle between the modes.

- One File 💭 : repeats play of currently playing file.
- All 💭 : repeats the all files in the USB.

Viewing File Info

Touch [Info].

The file information (File name, Resolution and Total Time) will be displayed.

Caption



Check the caption box to display caption on USB Video screen.

Visual Settings

Touch \blacksquare \rightarrow [Visual Settings] For details, refer to "Visual Settings" on page 73.

· Operating the Visual Settings is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



Sound Settings

Touch \blacksquare \rightarrow [Sound Settings] For details, refer to "Sound Settings" on page 68.

Supported USB Video Formats

Category	Description		
File Format	AVI, MPEG		
Extensions	avi, mpg, mpeg, mp4, wmv		
Video Codec	MPEG4-ASP, MPEG4-AVC(H.264), AVS, VP8		
Video Resolution	1920 x 1080 (WMV 9: Max 8Mbps, 1280x720, WMV 8: 640x480)		
Audio Codec	MP3, OGG, WMA(AC3 not supported)		
Subtitles	SMI		
	Files not compatible with supported specifications		
Unsupported files	Modified files (files with modified file formats)		
	Transformed files (example: AVI files encoded with WMV video codec)		
	Files without indexes		

USB Image

You can play music/Video/Image files stored in a disc on the internal player of this system.

USB Image Main Screen



- ① Displays the list screen
- ② Screen Settings
- **③** Displays the Previous Screen
- **④** Information Display
- 5 Current Image no. / Total Image no.
- 6 Zoom in/out
- ⑦ Slide Show
- 8 Rotate Right
- Info

Playing USB Image Files

- Press the All Menus button → touch [USB Image]. Or in the Home screen, touch [All Menus] → [USB Image].
- 2 Swipe left or right to display and select the desired file.

Viewing in Full Screen

Touch the screen in a non-menu area to change to full screen. If you want to display the menu, touch the screen.

 If there are no operations for 10 seconds, the menu will automatically disappear.

Searching USB Image Files

You can search the files in the List screen.



Touch **Q** to display USB File list screen.





Search the desired file.



Touch the desired file to play.

• To change list type, touch and select [List View] or Show Current Track.

Screen Settings

Touch $\blacksquare \rightarrow$ [Screen Setting] For details, refer to "Screen Settings" on page 74.

Supported USB Image Format

Category	Description	
Supported Format	bmp, jpg, png, gif file	

iPod Music

- Before using this function, turn Apple CarPlay On and plug in your iPhone using the Lightning to USB Cable (Supplied with iPhone) to the unit (page 84).
- The use of genuine iPhone[®] cables supplied by Apple is recommended. (The use of other products may result in noise or abnormal operation.)
- Within iPhones, streaming audio and iPod[®] control may occasionally conflict. If problems persist, remove the iPhone and connect again.
- If iPods[®] and Bluetooth[®] devices are connected simultaneously with the same iPhone, Bluetooth[®] audio will be unavailable.
- Some iPhones with unsupported communication protocols may not properly operate with the system.

Supported iPhone Devices

- While iPhone device work normally on iOS 12.4, they may not work normally on future iOS versions as their operation have not yet been tested.
 - Supported iPhone: starting from generation 5, 5s, 5c, 6, 6+,

iPod Music Main Screen



- ① Displays the list screen
- 2 Menu
- **③ Displays the Previous Screen**
- ④ Artwork Display
- 5 Current Song no. / Total Song no.
- 6 Information Display
- ⑦ Play Time and Play Bar
- ⑧ Previous File
- 9 Play/Pause
- 1 Repeat
- ft) Shuffle
- 12 Next File

Playing iPod Music

Press the All Menus button → touch [iPod Music]. Or in the Home screen, touch [All Menus] → [iPod Music].

Touch |◀◀ or ▶▶| and select the desired file. If play time is over 3 seconds, pressing |◀◀ will play the current file from the beginning.



Touch ► to play iPod music. While playing, touch II to pause iPod music.

The feature may operate differently depending on the iPod specification.

Fast-Forwarding or Rewinding a File

You can search the files in the List screen.

1

Touch Q to display iPod Music list screen.





Search the desired category and file.

It is possible to search by Playlist, Artist Album, song and others.

3

Touch the desired file to play.

Repeat

Touch \bigcirc to toggle between the modes.

- One File
 i: repeats play of currently playing file.
- Off 🗇 : turns the repeat feature off.

Shuffle

Touch \asymp to toggle between the modes.

- On 🔀 : plays files within playlist in random order.
- Off 💢 : turns the shuffle feature off.

Sound Settings

Touch \equiv \rightarrow [Sound Settings]

For details, refer to "Sound Settings" on page 68.

Fast-Forwarding or Rewinding File

Using | << or >> | .

While playing, touch and hold **| < d o r >> |**. Touch and hold for more than 1 second to rewind or fastforward at 4x speed. Keep touching to switch the speed to 20x.



Release | ◀◀ or ▶▶ | to play the file at normal speed.

Using Play Bar

Drag or touch the slider along the play bar to jump to the point that you want to play from.

Android Auto

What Is Android Auto

Android Auto is designed to make it easier to use apps from your phone while you're on the road. Navigate with Google Maps, listen to playlists or podcasts from your favorite apps, and more.

Activate Android Auto

Download the Android Auto App from the Google Play store before continuing.

Just plug in your smartphone to the unit's USB connector, then follow the prompt to pair your smartphone with the unit.

 The connected smartphone with Android Auto will disconnect other phone's Bluetooth connection and pair to the unit.

Press the All Menus button → touch [Android Auto]. Or in the Home screen, touch [All Menus] → [Android Auto].

2 The Android Auto screen is displayed.

- When a used smartphone is reconnected, touch the pop-up message-'Android Auto connected'' within 5 seconds to access to Android Auto screen, or you can ignore prompt by touching [X] on the top right.
- You can make a call, use voice recognition function and Android Auto's compatible navigation app, etc,.
- Only Google approved apps with necessary driver-safety measures in place can be used.

Apple CarPlay

Apple CarPlay is a smarter, safer way to use your iPhone in the car. Apple CarPlay takes the things you want to do with your iPhone while driving and puts them right on the unit. You can get directions, make calls, send and receive messages, and listen to music, all in a way that allows you to stay focused on the road. Just plug in your iPhone to the unit and go.

- Before using this function, turn Apple CarPlay On and plug in your iPhone using Lightning to USB Cable (Supplied with iPhone) to the unit.
- · Some functions may not be available while driving.
- About iPhone models usable with this unit, see "iPod/iPhone " (page 84). Only an iPhone 5 or later compatible with Apple CarPlay function.

Access to Apple CarPlay

Press the All Menus button → touch [Apple CarPlay]. Or in the Home screen, touch [All Menus] → [Apple CarPlay].



- Touch the desired App icon on the unit, or use Siri function by pressing the VOICE button.
- When a used iPhone 5 or later is reconnected, touch the pop-up message-"Apple CarPlay connected." within 5 seconds to access to Apple CarPlay screen, or you can ignore prompt by touching [X] on the top right.
- The App must be Apple CarPlay compatible in order to appear in the Home screen.

HDMI

Devices supporting HDMI can connect and play back through this unit. When making HDMI connections, you need to set HDMI on the unit suitable for the connected device.

- · The HDMI/MHL connecting cable differs depending on the connected device corresponding to HDMI. Prepare optional HDMI/ MHL connecting cable sets suitable for your device.
- The electronic device must possess an HDMI output interface.
- · Not all devices with an HDMI output interface can be recognised by this unit.
- · Use only the Alpine Special HDMI connection cable.

WARNING

- It is dangerous (and illegal in many countries) for the driver to watch video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.
- · Install the unit correctly so that the driver cannot watch video unless the vehicle is stopped, and the parking brake is applied.
- · If the unit is not installed correctly, the driver will be able to watch video while driving the vehicle and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.
- · HDMI Video is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



HDMI Main Screen

HDMI Audio



HDMI Video



Playing HDMI Mode

- Press the All Menus **III** button → touch [HDMI]. Or in the Home screen, touch [All Menus] \rightarrow [HDMI].

 - Control directly within your HDMI device.

Viewing in Full Screen

Touch the screen in a non-menu area to change to full screen. If you want to display the menu, touch the screen.

· If there are no operations for 10 seconds, the menu will automatically disappear.

Changing Screen Ratio

Touch [Wide].

Each time the button is touched, the mode is changed.

Select the desired mode.

- · Wide: displays in 16:9 wide screen.
- Normal: displays in 4:3 screen ratio.
- · Cinema: displays in 21:9 screen ratio

Visual Settings

Touch $\blacksquare \rightarrow$ [Visual Settings]

For details, refer to "Visual Settings" on page 73.

 Operating the Visual Settings is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



Sound Settings

Touch \equiv \rightarrow [Sound Settings]

For details, refer to "Sound Settings" on page 68.

AUX (Auxiliary Device)

Devices supporting AUX can connect and play back through this unit. When making AUX connections, you need to set AUX on the unit suitable for the connected device.

- · Set AUX to "On."
- · Depending on the connected unit, the operation may differ.
- You can operate AUX, AUX DVD, GAME, Ext. DVD, DVD Changer, DVB-T, TV and -USB Player.

\land WARNING

- It is dangerous (and illegal in many states) for the driver to watch TV/video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.
- Install the unit correctly so that the driver cannot watch TV/ video unless the vehicle is stopped and the emergency brake is applied.
- If the unit is not installed correctly, the driver will be able to TV/ watch video while driving the vehicle and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.
- AUX TV/Video is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)



AUX Main Screen

AUX Audio



AUX Video



Playing AUX Mode

Press the All Menus to button \rightarrow touch [AUX]. Or in the Home screen, touch [All Menus] \rightarrow [AUX].



Control directly within your external device.

Viewing in Full Screen

Touch the screen in a non-menu area to change to full screen. If you want to display the menu, touch the screen.

· If there are no operations for 10 seconds, the menu will automatically disappear.

Changing Screen Ratio

Touch [Wide].

Each time the button is touched, the mode is changed.



Select the desired mode.

- · Wide: displays in 16:9 wide screen.
- Normal: displays in 4:3 screen ratio.
- · Cinema: displays in 21:9 screen ratio

Visual Settings

Touch \blacksquare \rightarrow [Visual Settings] For details, refer to "Visual Settings" on page 73.

· Operating the Visual Settings is not available while driving. (Because of traffic regulations, videos are only available when your vehicle is parked.)

♠ 12:00	
□ Visual Settings	
Tideo	
AUX Video	
If you are driving, please pull over and park before using this function.	
Cainara OK	
e DVD	

Sound Settings

Touch $\blacksquare \rightarrow$ [Sound Settings] For details, refer to "Sound Settings" on page 68.

Bluetooth Audio

Music saved in the mobile phone, portable player, etc. can be played in the car through Bluetooth audio streaming.

- Bluetooth audio can be played only when a Bluetooth phone or Bluetooth audio device has been connected. To play Bluetooth audio, connect the Bluetooth phone to the car system. For more information on connecting Bluetooth, please refer to the user's manual [Pairing and connecting the unit and a Bluetooth phone] on page 64.
- The feature may operate differently depending on the Bluetooth device.

Bluetooth Audio Main Screen



- ① Menu
- 2 Displays the Previous Screen
- ③ Bluetooth Icon
- ④ Information Display
- (5) Play Time and Play Bar
- 6 Previous File
- ⑦ Play / Pause
- 8 Repeat
- 9 Shuffle
- 1 Next File

Playing Bluetooth Audio

Press the All Menus button → touch [Bluetooth Audio]. Or in the Home screen, touch [All Menus] → [Bluetooth Audio].

Touch | ◀◀ or ▶▶ | and select the desired file.

If play time is over 3 seconds, pressing I will play the current file from the beginning.



Touch 📲 to play Bluetooth Audio.

While playing, touch **I** to pause Bluetooth Audio.

- The title/artist info may not be supported in some devices. When it
 is not supported, only the symbol will be displayed.
- The play/pause feature may operate differently depending on the device.

Fast-Forwarding or Rewinding a File

Using or .



While playing, touch and hold | <- or >> | .

Touch and hold for more than 1 second to rewind or fastforward at 4x speed. Keep touching to switch the speed to 20x.

1	
4	2

Release | <- or >> | to play the track at normal speed.

Repeat

Touch \bigcirc to toggle between the modes.

• One File 😥 : repeats play of currently playing file.

- On 😅 : repeats all of the files in the Bluetooth Audio.
- Off 🗇 : turns the Repeat feature off.

Shuffle

Touch X to toggle between the modes.

• On 🄀 : plays files in the current category in random order.

• Off 💢 : turns the shuffle feature off.

Sound Settings

Touch \equiv \rightarrow [Sound Settings] For details, refer to "Sound Settings" on page 68.

54-EN

Bluetooth Operation

Setup Before Using

About Bluetooth

Bluetooth is a wireless technology allowing communication between a mobile device or personal computer over short distances. This enables a handsfree call or data transmission between Bluetooth compatible devices. Bluetooth transmission is available in the unlicensed 2.4 GHz spectrum if the distance between devices is within 10 metres. For details, refer to the Bluetooth website (http:// www.bluetooth.com/).

- Depending on the Bluetooth version, a Bluetooth compatible device may not be able to communicate with this unit.
- Proper function of this unit with all Bluetooth compatible devices is not guaranteed. For handling of the Bluetooth compatible device, consult your Alpine dealer or Alpine website.
- Depending on the surroundings, Bluetooth wireless connection may be unstable.
- When you place a call, or perform setup operations, be sure to stop your car in a safe place.
- Depending on the connected Bluetooth compatible device(s), the function may differ. Also refer to the Owner's Manual of the connected device(s).

About Handsfree Phone

Handsfree calls are possible when using a HFP (Hands-Free Profile) compatible mobile phone with this unit.

- Avoid performing a handsfree call in heavy traffic or on narrow or winding streets.
- · Close the windows while calling to reduce background noise.
- If both calling parties are using handsfree devices, or the call is made in a noisy location, difficulty hearing the other person's voice is normal.
- Depending on telephone line conditions or certain mobile devices used, voices may sound unnatural.
- When using a microphone, speak as directly as you can into the microphone to obtain the best sound quality.
- Certain mobile phone features are dependent on the capabilities and settings of your service provider's network. Additionally, certain features may not be activated by your service provider, and/or the provider's network settings may limit the feature's functionality.
- Always contact your service provider about feature availability and functionality.
- All features, functionality, and other product specifications, as well as the information contained in the Owner's Manual are based upon the latest available information and are believed to be accurate at the time of printing.
- Alpine reserves the right to change or modify any information or specifications without notice or obligation.
- Notice that when you connect an iPhone 5 or later/Android smartphone which installed Android Auto App, the operation screen may differ from this section.

Phone

Pairing and Connecting a Phone

When No Phones Have Been Paired

Press the All Menus \blacksquare button \rightarrow touch [Phone]. Or in the Home screen, touch [All Menus] \rightarrow [Phone].





Touch [Yes].





Pair from the Bluetooth Device

From the Bluetooth device, search for the car name and pair the device. When searching from the Bluetooth device, the car name is 'INE-W970HD' and the default passkey is '0000'.

When a Phone Is Already Paired

ĥ		12:00	@ @, %			
3	+					
	😵 Phone Name 🛛 Connected 🛞 🔂					
	Add New	Delete Items	Delete All			

2 Select the device from the list and touch [Connect].

 When a Bluetooth device is connected, a new device cannot be paired. If you want to pair a new phone, first disconnect the connected Bluetooth device.

When a Phone Is Connected

Press the All Menus \blacksquare button \rightarrow touch [Phone]. Or in the Home screen, touch [All Menus] \rightarrow [Phone].

The following screen will be displayed.

Â	♠ 12:00				
Dial	Call History	Contacts	Favourite	s Q	•
Enter the phone number.				2 авс	3 DEF
			4 сні	5 JKL	6 мло
Phone Name		7 PQRS	8 TUV	9 wxyz	
		*	0 +	#	
		٠.	\$	+	

- Once Bluetooth connection is successful, the name of the connected mobile phone will be displayed on the phone screen and Bluetooth handsfree functions will be ready to be operated.
- Some functions may not be supported due to limited Bluetooth compatibility between the car system and mobile phone.

Disconnecting Bluetooth Devices

In the Phone screen, touch [Settings] → [Bluetooth Connection].



2 Select the currently connected device and touch [Disconnect].

Deleting Bluetooth Devices

In the Phone screen, touch [Settings] → [Bluetooth Connection].

2 Touch [Delete Items] and select the device you wish to delete.



3

Touch [Delete].

To select all devices, press [Mark All]. To deselect all selected devices, press [Unmark All].

- A connected Bluetooth device cannot be deleted. First disconnect the connected Bluetooth device.
- · If you want to delete all paired devices, touch [Delete all].
- Once a device is deleted, the call history and contacts that were saved to the head unit are also deleted.

Phone Screen

Bluetooth Phone Main Screen



1 Dial

This is the main screen in which Bluetooth Phone operates.

2 Call History

Display the Call History screen.

③ Contacts Display the Contacts screen.

④ Favorites

Display the Contacts screen. You can add frequently used numbers to Favorites to quickly find and call numbers.

(5) Search

Displays the Contacts Search screen. You can search the contacts by name or phone number.

6 Displays the Previous Screen

⑦ Number Field

Shows entered numbers

8 Search Results

Displays the contact and number search results.

9 Dial Pad

Used to enter numbers. The entered numbers are shown in the number field.

① Call

If a number has been entered, calls the number.

1 Settings

Displays the Bluetooth Settings Screen.

12 Delete

Deletes entered numbers.

Making a Call

Dialling by Dialling a Number



Enter number on the Dial Pad

Touch [Call].

The phone call is started.

♠ 12:00					🕮 🕀, 🖬
Dial	Call History	Contacts	Favourite	•	
	1-248-409-9400			2 ABC	3 DEF
Alpine Electr	Alpine Electronics 1-248-409-9400		4 сні	5 JKL	6 мло
1-240-4			7 PQRS	8 TUV	9 wxyz
		*	0 +	#	
			5	¢	ŧ

 If you press the wrong number, press [Delete] to delete one digit of the entered number. Press and hold the dial pad [0+] to enter a "+".

Making a Call from Speed Dial

- 1. Enter the 1 or 2 digit speed dial number with the Dial Pad
- 2. Touch and hold the last number.
 - The phone call is started.

Calling through Redial

- 1. Touch and hold [Call]. The phone call is started.
- · Redialling is not possible when there is no dialled calls list.

Making a Call from Contacts

Touch [Call History]



Â		12:	00		∰ @, ∐
Dial	Call History	Contacts	Favourites	Ξ	•
🖲 Total(*	124)				
😋 Name	٥	00000000	000 05.	24	0
😋 Name		00000000	000 05	24	0
😋 Name		00000000	000 05	24	0
😋 Name	۵	00000000	000 05.	24	0
All	Dialk	ed Calls	Received Calls	s Mis	sed Calls

- · All: entire calls list
- · Dialled Calls: dialled calls list
- · Received Calls: received calls list
- · Missed Calls: missed calls list



Select the contact you wish to call.

The phone call is started.

Making a call from contacts

Touch [Contacts]

Ο Τοι

Touch $\blacksquare \rightarrow$ Select the desired search option.

â		12:0	0	CII 🍕 Li
Dial	Call History	Contacts	Favourites	•
			Download	
			Search by Name	
			Search by Numb	er



Enter the name or number.



Select the contact you wish to call. The phone call is started.

Making a Call from Favorites

Touch [Favorites]

Select the contact you wish to call.

The phone call is started.

Â		12:0	⊞ @, ⊑		
Dial	Call History	Contacts	Favourites	=	•
🖲 Total	(171)				
Name		000000000	00		
Name		000000000	00		0
Name		000000000	00		•
Name		000000000	00		•
Name	*	010000000	00		0

Answering a Call



When there is an incoming call you wish to accept, touch [Accept].

2

The incoming call is connected.



- · During a call, the audio for the current mode on the unit is muted. After calling, playback will resume.
- · When the caller's number is transmitted to the system, if the caller's name is stored in the phone book, the name is displayed. If the name is not stored, the number is displayed.

Operating Menus During a Call



- ① Info Display Window
- 2 Use Private

During a handsfree call, this function is used to switch the call to the mobile phone.

- 3 End
- ④ Displays the Previous Screen
- **⑤** Contacts
- 6 Mic Volume On/Off
- ⑦ Dial Pad

Ending a Call

Touch [End].

Switching a Call to Private/Handsfree

- During a handsfree call, press [Use Private] to switch the call to Bluetooth phone.
- 2 Once the call is switched to the cell phone, a message is displayed on the screen.



³

To switch the call back to the handsfree, press [Use Handsfree].

Switching to Call Waiting

If another person calls while you are already on a call, the current call can be placed on hold or ended to answer the new call.

If there is a new call, the following screen will be displayed.

^	12:00	Œ	II 0;	ы
Bluetooth Pho	ne		+	
e	s. 📞 👘			
	Incoming Call			
	Alpine Electronic:			
	1-248-409-9400			
🐫 Hold 1st Call		r Reject		

- · Hold 1st Call: holds current call and answers new call.
- End 1st Call: ends current call and answers new call.
- · Reject: rejects new call and maintains current call.



If there is a call waiting, touch [Switch] to switch to the waiting call.

↑ 12:00	ጠ የ ጠ
Bluetooth Phone	•
U Holding 1-248-409-9400	۲
0:00:49	Ð
1-310-783-7230	
🧐 Switch 🔲 Use Private 🦰 End	

To finish a call, touch [(End).

Turning Mic On/Off

This feature is used to mute the outgoing volume to the other party.

During a call, touch 🚺 .

To Turn the mic back on, touch 🖳 again.



Adjusting Call Volume

This menu is used to adjust the mic volume during calls.

Press the volume (+/-) button to adjust the mic volume.

DTMF (Touch-Tone) Function

This menu is used to display keypad during calls.

Touch 🛄 .

The number input screen (Keypad) displays.

Enter number.

Contacts

Downloading Contacts

Up to 5,000 mobile phone contacts can be updated.

1	Touch	≡ →	[Download].
---	-------	-----	-------------

Â		12:0	0	2. 1		⊞@, L
Dial	Call History	Contacts	F	avourites	Ξ	•
🕲 Total(1	171)			Download		
Name	۵	0000000000	0	Search by	Name	Ŷ
Name	0	0000000000	0	Search by	Number	0
Name		0000000000	0	ootaon by	Rentioer	0
Name	0	0000000000	0			۲
Name	ŵ	010000000	0			0



The contacts are deleted and the contacts of the connected phone is updated.

Searching Contacts

Touch \equiv \rightarrow [Search by Name] or [Search by Number].

â <u>12:00</u>						Œ	•	, Tal		
name									+	、 、
Name	q	w	е	r	t	у	u	i	0	р
	a	s	d	f	g	h	j	k	1	-
	t	,	z	×	c	v	b	n	m	ŧ
	Ē		1234	,	А.,	z		-		ок

	12:0	0	•	∎@; ‰ ◆
0000000000	1	2 ABC	3 DEF	
	4 сні	5 jkl	6 мло	ŧ
	7 PQRS	8 TUV	9 wxyz	
		0 +	#	·

Enter the name or number.

Select the contact you wish to call. The phone call is started.

- · For details of how to input characters using the keypad, see "How to "Inputting Text (Keypad)" on page 15.
- You can also search contacts by touching Q in the Bluetooth Phone main screen.

Information



2 Touch [Add to Favorites] to add contact to Favorites.

Call History

n <u>12:00</u> m 🦣 M						
Dial Cal	History Contacts	s Favourites	≡ ◆			
🔄 Total(124)						
😋 Name	0000000	0000 05.24	0			
😋 Name	0000000	0000 05.24	•			
😋 Name	0000000	0000 05.24	0			
😋 Name	0000000	0000 05.24	0			
All	Dialled Calls	Received Calls	Missed Calls			

- · All: entire calls list
- · Dialled Calls: dialled calls list
- · Received Calls: received calls list
- · Missed Calls: missed calls list

Information



2 Touch [Call] to make a call Touch [Contact info] → [Add to Favorites] to add contact to Favorites.

Favorites

You can add frequently used numbers to Favorites to quickly find and call numbers.

Saving to Favorites

When no Favorites have been added, the following screen will be displayed.

â	1.1.1.	Sec.	⊞@, 14		
Dial	Call History	Contacts	Favourites	Ξ	•
🖲 Total	(0)				



Touch [Add New].



Select the contact you wish to add from the contacts.



Select the contacts and touch [Delete].



Bluetooth Settings



For details, refer to "Bluetooth Settings" on page 64.

Setup

Starting Mode



Press the All Menus \blacksquare button \rightarrow touch [Setup]. Or in the Home screen, touch \rightarrow [Setup].

The Setup main screen will be displayed. Swipe to the left to see the second page.







Touch the icon of the desired setting.

Bluetooth Settings

This menu allows you to set Bluetooth settings.



Â	12:00		ի Նև
Diluetooth	Settings	•	,
luetooth 🎝	Connection		
auto Conr	nection Priority		
ið Bluetooth	Information		
Passkey		0000	
C Reset			

Bluetooth Connection

This menu allows you to manage the Bluetooth device list, such as pairing, connecting or deleting Bluetooth devices.



In the Bluetooth Settings screen, touch [Bluetooth Connection].

A Bluetooth Co	12:00		
Phone Name		🛞 🔂 Disconnect .	(
Add New	Delete Items	Delete All	
2	3	(4)	

Connect/Disconnect

connects/disconnects a Bluetooth device.

② Add new

pairs a new Bluetooth device.

③ Delete items

deletes a paired Bluetooth device.

④ Delete all deletes all paired Bluetooth devices.

- Pairing and Connecting a Phone When no Phones Have Been Paired
- 1. Touch [Add New].

Or in the Home screen, touch [All Menus] \rightarrow [Phone].



2. Pair from the Bluetooth Device.



From the Bluetooth device, search for the AVN unit name and pair the device. When searching from the Bluetooth device, the AVN unit name is 'INE-W970HD' and the default passkey is '0000'.

- Some Bluetooth devices may require you to enter the passkey while others may not.
- 3. Once Bluetooth connection is successful, the name of the connected Bluetooth device will be displayed on the screen.

When a Phone is Already Paired

Select the device from the list and touch [Connect].



- While a phone is paired and connected, the user can press [Add New] and follow the prompt to confirm system action to disconnect the current phone and pair a new one.
- · You can register up to 5 Bluetooth compatible mobile phones.
- If all 5 devices have been registered, you cannot register a 6th device. To register another device, you need to delete one of the other 5 devices first.

Disconnecting Bluetooth Devices

Select the currently connected device and touch [Disconnect].

^	en 🚱 🖬	
Iluetooth Co	*	
😵 Phone Name		🛞 🔂 Disconnect
Add New	Delete Items	Delete All
, laa rion	Delete Herrie	B elete f m

Deleting Bluetooth Devices

1. Touch [Delete Item] and select the device you wish to delete.



2. Touch [Delete].

To select all devices, press [Mark All]. To deselect all selected devices, press [Unmark All].

- A connected Bluetooth device can be deleted by pressing Yes in the popup window alerting you that the device will first be disconnected.
- · If you want to delete all paired devices, touch [Delete all].
- Once a device is deleted, the call history and contacts that were saved to the head unit are also deleted.

Setting Auto-Connection Priority

The Bluetooth device that is selected to have priority will automatically be connected when the car ignition is turned on.



Auto Connection P	00 (14				
No Phone Selected	Phone Name1				
Phone Name2	Empty				
Connects a selected phone at start-up. If no phone is selected, the Bisetechth system will by to connect to the phone that had been connected most excently.					



Select the Bluetooth device you want the system to connect automatically.

If you touch [No Phone Selected] button, the most recently connected Bluetooth $^{\otimes}$ phone will connect automatically.

Viewing Bluetooth System Info

This feature is used to view the Bluetooth vehicle name and system information.



In the Bluetooth Settings screen, touch [Bluetooth Information].

★ 12:00 <i>∂</i> Bluetooth Information					
Bluetooth Device					
INE-W970HD					
00:02:5B:00:A5:A5					

Setting the Passkey

This feature allows you to change the passkey used for Bluetooth device authentication.

In the Bluetooth Settings screen, touch [Passkey].





Enter the passkey and touch [OK]

• The default passkey is 0000.

Resetting Bluetooth Settings

This feature will restore the system's Bluetooth connection settings to the factory default. Any paired/connected devices will be removed.

In the Bluetooth Settings screen, touch [Reset]
♠ 12:00
C Reset
Resets Bluetooth settings to factory default settings
Reset



1

Touch [Reset] \rightarrow [Yes].

Sound Settings

1

This menu is used to adjust the sound effects for the whole system.

n the Setup screen, touch	[Sounds	s].
â 12:00		
at) Sound Settings		+
器 Tone/Fader/Balance		
N Subwoofer		Off
∎¢⊗ Subwoofer Level		
∎ø Subwoofer Phase		
MX HD		Off >
전 EQ Presets		Flat >
♠ 12:00	S. Arter	
al» Sound Settings		+
X-Over		>
STIME Correction		
No Defeat		Off
Ney Sound	- 3	+
A Mute while backing up		On 🗹

Setting Tone/Fader/Balance

In the Sounds Settings screen, touch [Tone/Fader/Balance].





Use the \blacktriangle , \bigtriangledown , \blacklozenge , \blacklozenge , \blacklozenge , +, -, and o buttons to adjust Settings.

Touch 🛞 to restore sound to the Center position.

Setting Subwoofer

Check the [Off] box to turn subwoofer feature on.





Adjust the subwoofer level and phase using

- · The Subwoofer Lever and Phase features are unavailable when the Subwoofer feature is turned off.
- The subwoofer level can be set from 0 to 15.
- · The subwoofer output phase is toggled Subwoofer Normal (0°) or Subwoofer Reverse (180°).

Setting MX HD

Media Xpander (MX HD) makes vocals or instruments sound distinct regardless of the music source. The Radio FM/SiriusXM, USB Flash drive and iPod/iPhone, will be able to reproduce the music clearly even in cars with a lot of road noise.

In the Sounds Settings screen, touch [MX HD].



Set the desired option.

â 12	:00
-II MX HD	+
Off Off	
C Level 1	
Level 2	
C Level 3	

Media: Off/Level1/Level2/Level3: The medium to high frequencies become more clear, and produces well balanced sound in all the bands.

When AUX is connected, the options will be [Off, Compressed Media / Movie / Music].

AUX: Off / Compressed Media / Movie / Music : Choose the MX HD mode (Compressed Media, Movie, or Music) that corresponds to the media connected.

- · When the Defeat setting is "On," you cannot perform the set up.
- The MX HD setting can be performed only when a source is currently selected.
- The effectiveness increases as the MX HD setting value increases Level1 Level2 Level3.
- Movie: The dialogue portion of the video is reproduced more clearly
- Music: This disc contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

Setting EQ Presets

10 typical equalizer settings are preset at the factory for a variety of musical source material..





- · Only one type can be set to ON.
- The Equalizer Presets setting can be configured when Defeat is "Off."

Setting the Crossover (X-Over)

About the Crossover

This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.

The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).

Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, please consult your authorized Alpine dealer.

	Cut frequen octave	-off icy (1/3 steps)	Slope		Slope		Level
	HPF	LPF	HPF	LPF			
Subwoofer (LPF)		20 Hz - 200 Hz		0, 6, 12, 18, 24 dB/oct.	0 to –12 dB		
Rear speaker (HPF)	20 Hz - 200 Hz		0, 6, 12, 18, 24 dB/oct.		0 to 12 dB		
Front speaker (HPF)	20 Hz - 200 Hz		0, 6, 12, 18, 24 dB/oct.		0 to 12 dB		

Low range High range



- HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.
- LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.
- Slope: The level change (in dB) for a frequency change of one octave.
- · The higher the slope value, the steeper the slope becomes.
- · Adjust the slope to FLAT to bypass the HP or LP filters.
- Do not use a tweeter without the HPF set on, with a high cut-off frequency, otherwise damage may occur to the speaker due to the low frequency content.

 Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.

For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.

We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

1. In the Setup screen, touch [X-Over].

2. Touch [Channel[to select the channel. Each time you touch, the channel switches.



• The channel being adjusted is displayed in red. Front HPF \rightarrow Rear HPF \rightarrow Subw. LPF \rightarrow Front HPF

3. Adjust the crossover to your preference.

Selecting the Cut-Off Frequency

Touch or of "Frequency," and then select the cut-off frequency. (20 / 25 / 31.5 / 40 / 50 / 63 / 80 (Initial setting) / 100 / 125 / 160 / 200)

Adjusting the Slope

Touch or or for the slope," and then adjust the HPF or LPF slope. (0 (Initial setting) / 6 / 12 / 18 / 24 dB/oct.)

Adjusting the Level

Touch [+] or [-] of "Level," and then adjust the HPF or LPF level. (-12 to 0 dB (Initial setting: 0))

- 4. Repeat steps 1 to 2 to make adjustment to the other channels.
- 5. To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.
- · Touch [Flat] to initialise all values.
- If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited.
- While adjusting the X-OVER you should consider the frequency response of the connected speakers.

Calling the X-OVER adjusted value

Calling the pre-set X-OVER adjusted value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the X-OVER screen.

The setting stored in the Preset will be recalled.

Setting the Time Correction

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.

To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging. The adjustment will be made for each speaker in 3.4 cm steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.

The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").

Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:

Farthest Speaker – listening position : 2.25 m (88-9/16") Front left speaker – listening position : 0.5 m (19-11/16") Calculation: L = 2.25 m - 0.5 m = 1.75 m (68-7/8")

Time correction = $1.75 \div 343^* \times 1,000 = 5.1$ (ms)

* Speed of sound: 343 m/s (765 mph) at 20°C

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position.

The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

- Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.
- Calculate the difference between the distance correction value to the farthest speaker and the other speakers.

L = (distance to farthest speaker) – (distance to other speakers) These values are the time correction values for the different speakers. Setting these values to make each sound reach the listening position at the same time as the sound of other speakers.

Time Correction Value List

Time Difference (msec)	Distance (cm)	Distance (inch)	Time Difference (msec)	Distance (cm)	Distance (inch)
0.0	0.0	0.0	5.0	170.0	67.0
0.0	3.4	1.3	5.0	173.4	68.3
0.1	6.8	27	52	176.8	69.7
0.2	10.2	4.0	53	180.2	71.0
0.0	13.6	5.4	5.0	183.6	72.4
0.4	17.0	6.7	5.5	187.0	73.7
0.6	20.4	8.0	5.6	190.4	75.0
0.0	23.8	9.4	5.0	193.8	76.4
0.9	27.2	10.7	5.8	197.2	77.7
0.0	30.6	12.1	5.0	200.6	79.1
1.0	34.0	13.4	6.0	204.0	80.4
1.0	37.4	14.7	6.0	207.4	81.7
1.1	40.8	16.1	62	210.8	83.1
1.2	44.2	17.4	63	210.0	84.4
1.0	47.6	18.8	6.4	217.6	85.8
1.4	51.0	20.1	6.5	221.0	87.1
1.6	54.4	21.4	6.6	224.4	88.4
1.0	57.8	22.8	6.7	227.8	89.8
1.7	61.2	24.1	6.8	231.2	91.1
1.0	64.6	25.5	6.9	234.6	92.5
2.0	68.0	26.8	7.0	238.0	93.8
2.0	71.4	28.1	7.0	241.4	95.1
22	74.8	29.5	72	244.8	96.5
2.3	78.2	30.8	7.3	248.2	97.8
2.0	81.6	32.2	74	251.6	99.2
2.5	85.0	33.5	7.5	255.0	100.5
2.6	88.4	34.8	7.6	258.4	101.8
2.7	91.8	36.2	7.7	261.8	103.2
2.8	95.2	37.5	7.8	265.2	104.5
2.9	98.6	38.9	7.9	268.6	105.9
3.0	102.0	40.2	8.0	272.0	107.2
3.1	105.4	41.5	8.1	275.4	108.5
3.2	108.8	42.9	8.2	278.8	109.9
3.3	112.2	44.2	8.3	282.2	111.2
3.4	115.6	45.6	8.4	285.6	112.6
3.5	119.0	45.9	8.5	289.0	113.9
3.6	122.4	48.2	8.6	292.4	115.2
3.7	125.8	49.6	8.7	295.8	116.6
3.8	129.2	50.9	8.8	299.2	117.9
3.9	132.6	52.3	8.9	302.6	119.3
4.0	136.0	53.6	9.0	306.0	120.6
4.1	139.4	54.9	9.1	309.4	121.9
4.2	142.8	56.3	9.2	312.8	123.3
4.3	146.2	57.6	9.3	316.2	124.6
4.4	149.6	59.0	9.4	319.6	126.0
4.5	153.0	60.3	9.5	323.0	127.3
4.6	156.4	61.6	9.6	326.4	128.6
4.7	159.8	63.0	9.7	329.8	130.0
4.8	163.2	64.3	9.8	333.2	131.3
4.9	166.6	65.7	9.9	336.6	132.7

1. In the Setup screen, touch [Time Correction].



2. Touch the Correction Mode button and select the mode. Each time the button is pressed, mode is changed from ms, inch and cm.

3. Touch [+] or [-] for each speaker to adjust the time or distance.

0.0 msec to 9.9 msec (0.1 msec/step)

 $0.0\ {\rm cm}\ (0.0\ {\rm inch})\ {\rm to}\ 336.6\ {\rm cm}\ (132.7\ {\rm inch})\ (3.4\ {\rm cm/step})$ All speaker setting values are adjustable in the range of 15 ms or 510 cm.

- 4. To store the adjusted setting value, touch and hold [Preset 1], [Preset 2], or [Preset 3] for at least 2 seconds.
- · Touch [Flat] to set all values to 0.0.
- If the Subwoofer setting is "Off," the Subwoofer setting cannot be edited.

Calling the Time Correction Value

Calling the pre-set time correction value.

Touch [Preset 1], [Preset 2], or [Preset 3] on the time correction screen.

The setting stored in the Preset will be recalled.

Setting Defeat

When Defeat is "ON," MX HD and EQ Presets are turned off. The settings for these functions will be disabled.

Check the [Off] box to turn the feature on.

â <u>12:00</u>	1. Contraction of the second
at Sound Settings	+
Z-Over	
2 Time Correction	
N) Defeat	Off
N Key Sound	- 3 +
Mute while backing up	On 🗹
N Default Sound Settings	>

Uncheck the [On] box to turn the feature off.

Setting Key Sound

You can change the volume of the sound heard when a button is touched.

Adjust the sound level from 0 to 6.

ĥ	12:00		
a))	Sound Settings Z-Over		•
	2 Time Correction		
	∢ ⊗ Defeat		Off
	♦) Key Sound	—	+
	At the while backing up		On 🗹
	Default Sound Settings		
Setting Mute while backing up

1

Select the desired option from Off and On.



- Audio Mute while Reversing feature used to control audio upon shifting the vehicle into Reverse.
- · On Mutes sound while play continues.
- · Off Audio continues to play, unmuted.

Default Sound Settings

This feature is used to restore all sound settings back to default state.

In the Sound Settings screen, touch [Default Sound Settings].





Touch [Reset].

Visual Settings

This feature is used to adjust the Brightness, Saturation, Contrast and Hue levels.

In the Setup screen, touch [Visual].

♠ 12:00	
Visual Settings	*
Uideo Video	
N DISC	
11 AUX Video	
🖡 HDMI	
Camera	

• "Video" can be selected while a video is playing.

Setting Brightness/Contrast/Saturation/ Hue

In the Visual Settings screen, touch the desired menu.

HDMI	12:00	the second	යා ලි මා ය
Brightness			
Contrast			
Saturation			+
Hue			+



Use [+] and [-] to adjust settings from -5 to +5.

· In the Video visual settings, [Hue] is not supported.

Screen Settings

This menu allows you to set the display settings for the whole system

In the Setup screen, touch [Screen].

♠ 12:00		
Screen Settings	+	,
Screen/Lighting		
Screen Color	Blue	
🕤 Illumination Color	Blue	
A Text Scroll	Off	

Setting Screen/Lighting

♠ 12:00	1.53		
Screen/Lighting			•
Dimmer		Auto	>
Key illumination Level		-2	+
Screen Dimmer Level		MIN	+

In the Screen Settings screen, touch [Screen/Lighting].

Setting Dimmer

Backlighting is provided by LED lights built into the liquid crystal panel. The Dimmer setting adjusts the brightness of the backlighting based on the car ambient lighting for easier viewing.

Set the desired value from Auto, On and Off.

Auto: Adjust the brightness of the background illumination of the monitor automatically to the brightness of the car interior. On: Keep the background illumination of the monitor dark. Off: Deactivate Auto Dimmer mode to keep the background illumination of the monitor bright.

 The Key Illumination Level and Screen Dimmer Level feature are unavailable when the Dimmer value is set to "Off".

Setting Key Illumination Level

You can adjust the brightness of the button lighting at night with the Key Illumination Level.

Adjust the value from -2 to +2.

This setting is only available when "Dimmer" is set to "On." or "Auto."

Setting Screen Dimmer Level

You can adjust the brightness of the backlight. This function could be used, for instance, to change the screen brightness while travelling at night.

Adjust the value from -15 to +15.

You can adjust the level between MIN (-15) and MAX (+15). When it reaches the minimum or maximum point, the display shows "MIN" or "MAX" respectively.

· This setting is only available when "Dimmer" is set to "On" or "Auto."

Setting Screen Color

You can choose the screen Color from 5 different Colors.

In the Screen Settings screen,
touch [Screen Color].

▲ 12:00	
🖘 Screen Color	+
O Blue	
Red	
Green	
O Amber	
O White	



Select the desired Color.

Setting Illumination Color

You can choose the Color of the Front Panel button from one of 7 Colors.

In the Screen Settings screen, touch [Illumination Color].

♠ 12:00	
🖘 Illumination Color	+
O Blue	
Turquoise	
Red	
Vellow	
Green	
O Amber	

Setting Text Scroll

Scroll display is available if folder name, file name or tag information is entered.

Check the [Off] box to turn the feature on.

♠ 12:00		
Screen Settings	+	
Screen/Lighting		
Screen Color	Blue	
🖘 Illumination Color	Blue	
A Text Scroll	Off	

· Uncheck the [On] box to turn the feature off.

General Setup

You can set up items related to the language, etc.

In the Setup screen, touch [General].

♠ 12:00	1 Star
\Xi General Setup	+
Screen Saver	
Language	English >
Security Code	Off
🔁 System Info	
Demo Mode	Off
Restore Factory Setting	

Setting Screen Saver

This feature is used to display a screen saver when the monitor is off.



In the General Settings screen, touch [Screen Saver].





Select the desired option.

- · Digital: the screen will display the digital clock.
- · Analogue: the screen will display the analogue clock.
- · None: the screen will remain off.

Setting Language

This menu allows you to set the language of the system.

In the General Settings screen, touch [Language].





Select the desired language. English / Francais / Español

Setting Security Code

You can set the system to be unusable without entering a password. When you turn this setting to "On" and set a password, password input is required when the system is connected to a battery and turned on for the first time.

Setting the security Code

1. Check the [Off] box to turn the feature on and touch [OK].

â		12	00		
5 Ente	r Security	/ Code			+
	1	2 ABC	3 DEF	+	
	4 сні	5 JKL	6 мло	÷	
	7 PQRS	8 TUV	9 wxyz	0%	
	*	0 *	#		

2. Enter a password and touch [OK].

- Enter a 6~10 digit number.
- Touch [+] to delete an entered number.

3. Enter the same pasword again and touch [OK].

The security code is set and the system returns to the General Settings screen, then the checkbox of the Security Code is set to "On".

 If you forget a registered password, you can not use this unit. In this case, service will be required.

Clearing the security Code

1. Uncheck the [On] box.

The password setting screen is displayed.

2. Enter the password you have set and touch [OK].

The password is cleared and the system returns to the General Settings screen then the checkbox of the Security Code is set to "Off".

Viewing System Info

You can view the version information of this product. Make note of this information and refer to it whenever you contact Alpine Tech Support or an Alpine-authorized dealer.

In the General Settings screen, touch [System Info].



Setting Demo Mode

This unit has a Demonstration feature for the display. To quit demo mode, set Demo mode to Off.

Uncheck the [On] box to turn the feature off.



Check the [Off] box to turn the feature on.

To start Demo mode, refrain from operating the system for 30 seconds. Please wait.

 If you perform an operation during the Demo mode, the demonstration is temporarily stopped.

Initializing the System

You can initialise all data, to restore the factory settings. Remove the USB flash drive, etc. from the system before operation.



^	12:00	1 day	
C Restore Factor	y Setting		•
Reset use	r-generated system er-specified setting	n data and as.	
	Reset		



 $\textbf{Touch [Reset]} \rightarrow \textbf{[Yes]}.$

 Do not turn on/off the power, change the ignition key position or remove the screen panel until system restart is completed.

Car Settings

In the Setup screen, touch [Car].



SiriusXM Settings

In the Setup screen, touch [SiriusXM].

Â	ì	12:00	
Ш	Si	riusXM Settings	÷
		Alert	on 🗹
	4	Alert Delete All	Reset
	4	Alert Setup	
	*	Favorite Team Setup	
	0	Featured Favorite Update Notification	ON 🗹
	۸	Parent Lock	

Setting Steering Wheel

Set this item when Apple CarPlay is used. This setting influences Apple CarPlay mode.

Select the desired option from Left and Right.

Setting Installation Status

Installation Status enables you to check the connection status of Reverse Lead/Parking Brake Lead.

In the Car Settings screen, touch [Installation Status].

↑ 12:00	in the second
A Installation Status	+
Reverse	Off
Park	On

Setting All Alerts On/Off

This menu option allows you to temporarily disable all alerts.

Uncheck the [On] box of Alert to disable the alerts.

Â	12:00	Course and
⊞ s	iriusXM Settings	•
4	Alert	ON 🗹
4	Alert Delete All	Reset
4	Alert Setup	
*	Favorite Team Setup	
0	Featured Favorite Update Notification	ON 🗹
•	Parent Lock	



Check the [Off] box to enable the alerts.

Deleting All Saved Alerts

This operation will delete all alerts (artists, songs and teams) saved in memory.





Touch [YES] to clear the information of all stored Artist, Song, and Game alert items. Touch [NO] to cancel.

Setting Saved Alerts

This menu option allows you to disable/delete the saved alerts.

In the SiriusXM Settings screen, touch [Alert Setup].



Uncheck the [On] box to disable the alerts. Check the [Off] box to enable the alerts.



Touch [Del] to delete the saved alerts.

Setting Favorite Sports Team Alerts

This menu option allows you to select your favorite teams, organized by leagues, so that you will be alerted later when your favorite teams are playing on other channels. Once selected, you will be alerted when games that those teams are playing in can be heard on a SiriusXM channel.



In the SiriusXM Settings screen, touch [Favorite Team Setup].

ĥ	ì	12:00	
	F	avorite Team Setup	+
	×	National Football League	
	×	Major League Baseball	
	×	National Basketball Association	
	×	National Hockey League	
	×	College Football	
		College Backethall	



Select the desired league.

♠ 12:00	
∃ National Football League	+
ARI-Cardinals	Save 📃
ATL-Falcons	Save 📃
BAL-Ravens	Save
BUF-Bills	Save
CAR-Panthers	Save
CHI-Bears	Save



Check/uncheck the [Save] box to save/delete

- · When the team is saved, popup screen of the Total saved teams, and Remaining number of saving slots is displayed for two seconds, then the team is saved as a Favorite Team.
- · When you uncheck the [Save] box to delete an Alert, a confirmation popup is displayed.
- · The maximum number of saved Teams, Artists, and Songs is 50. For details on how to register an Artist alert or Song alert, see "Saving Song/Artist Alert" on page 27.

When the number of registered Teams, Artist, and Songs exceeds 50

If you try to save an alert after 50 alerts have been saved, a popup is displayed, asking whether you want to replace a saved Artist/Song/ Team with the new one.

Touch [YES].

- The list of saved Artists/Songs/Teams is displayed.
- If you want to cancel the saving of your Favorite Team, then touch [NO], and return to step 3.



Select the alert you want to replace.

Popup screen of confirmation is displayed for 2 seconds, then the team is saved as a Favorite Team.

Setting Featured Favorite Update Notification On/Off

This menu option allows you to temporarily disable Featured Favorite Update Alert.

Uncheck the [On] box to disable the alert.





Check the [Off] box to enable the alert.

Setting Parent Lock

You can lock out channels with passcode protection. Channels that are locked cannot be accessed without entering the passcode. You can unlock a channel or change the passcode using this menu option.

In the SiriusXM Settings screen, touch [Parent Lock].

A passcode input screen is displayed.



Enter a 4-digit passcode.

- The initial default 4-digit passcode is set to 0000. After entering the digit, it is displayed as "*" (asterisk). • Touch [<-] to delete an entered number.
- Touch [Delete All] to delete all entered numbers.

Touch [Done].



Setting the Lock status of individual channels

Touch [Locked Channel].





Check/uncheck [On] or [Off] of the channels list to set the Parental Lock Off/On.

ĥ	ì		12:00	
	Ŀ	ocke	ed Channel	÷
	⁰ X ⁰	002	Hits 1	ON 🗹
	⁰ X ⁰	003	20 on 20	OFF
	₿ X ®	004	40s on 4	OFF
	⁰ X ⁰	005	50s on 5	OFF
	⁰ X ⁰	006	60s on 6	OFF
	^D X ⁰	007	70s on 7	OFF

Clearing the Lock of ALL the locked Channels



Touch [Clear All Locked Channels].



Touch [YES] to clear the lock of all the locked channels. Touch [NO] to cancel.

Changing the Lock Passcode

4

Touch [Edit Code].

The numeric keypad screen is displayed.



Enter a 4-digit passcode.

The initial passcode is set to 0000.

- Touch [<-] to delete an entered number.
- Touch [Delete All] to delete all entered numbers.

3

Touch [Done] to confirm the entry.

Now use the keypad to enter the new 4-digit passcode.

Touch [Done].

Then use the keypad to enter the new 4-digit

passcode a second time to verify it.

Touch [Done].

- Remember to keep a note of the passcode in a safe place in case you forget the code.
- The passcode is reset to '0000' upon restoring factory default settings.

Signal Strength Information

While listening to a SiriusXM Channel, the Signal strength of the current channel will be displayed.

This menu item displays the SiriusXM signal strength as Strong, Good, Weak or No Signal.



 If the Signal Indicator reports Weak or No Signal and your vehicle is parked outside with no obstructions to the southern sky, then your SiriusXM antenna may not be properly installed or may have become damaged.

AUX Setup

You can set up the items related to the Auxiliary device.

In the Setup screen, touch [AUX].

ĥ	12:00	2 . 150		
())	AUX Setup			•
	AUX		C	Dn 🗹
	AUX Name		AL	X >
	Using Remote Control		AVN	>
	Signal		Auto	\rightarrow

- These settings cannot be changed when AUX is the current audio source.
- · These settings are only available when "AUX" is set to "On".

Turning AUX On/Off

Check the [Off] box to turn the feature on.

ĥ	12:00	3 ₁	
(II)	AUX Setup		*
	AUX		On 🗹
	AUX Name		AUX >
	Using Remote Control		AVN >
	Signal		Auto >

Uncheck the [On] box to turn the feature off.

Setting AUX Name

In the AUX Settings screen, touch [AUX Name].





Select the desired name.

AUX / AUX DVD / GAME / External DVD / DVD Changer / DVB-T / TV / USB Player

Using Remote Control

Set the [Using Remote Control] menu to AVN or RSE to use the remote control.

♠ 12:00	3. 150
11 AUX Setup	+
AUX	On 🗹
AUX Name	AUX >
Using Remote Control	< AVN >
Signal	< Auto >



Set this menu to [AVN] or [RSE].

- AVN : AUX is operated through the remote controller signal from the Remote Sensor.
- RSE : AUX is operated using the remote controller signal delivered from the device connected with the RSE.

Setting Signal

You can switch the visual input signal system.

Select the desired option.

	1.5		
🗰 AUX Setup			•
AUX		(Dn 🗹
AUX Name		AL	x >
Using Remote Control	<	AVN	>
Signal		Auto	>

- Auto: the video input signal type (NTSC or PAL) will be automatically selected.
- · NTSC/PAL: choose the video input signal type manually.

HDMI Settings

You can set the name of an external device connected via HDMI.

In the Setup screen, touch [HDMI].

â 12:	00		
HDMI Settings		+	
HDMI Name		HDMI 📿	>



Select the desired name.

- · HDMI: set when a smartphone is connected via HDMI.
- DVD: set when an external DVD player is connected.
- This setting cannot be changed when HDMI is the current audio source.

Camera Settings

You can set up items related to the Camera.

In the Setup screen, touch [Camera].



Setting Camera Status

You can set the camera input.

In the Camera Settings screen, touch [Camera Status].

â <u>12:00</u>	3. 15000
Camera Status	+
Rear	< Use >
Other	< Not Use >

2

- Set whether to use rear camera or other cameras.
- Rear: Rear camera
- Other: Side camera, Room camera, etc.

Setting Camera Signal

You can switch the video input signal system.

Select the desired option.



- Auto: the video input signal type (NTSC or PAL) will be automatically selected.
- · NTSC/PAL: choose the video input signal type manually.

Setting Camera Guideline

The camera guideline can be changed when connected to Rear View Camera.

This item cannot be selected when the rear camera status is set to "Use" or "Not Use".



In the Camera Settings screen, touch [Guideline Adjustment].





Touch the guideline you intend to adjust.

Guideline can also be selected by touching $[\bullet, \bullet]$.

 You cannot adjust the position of the yellow guideline in the Center independently.

It is controlled by a system to be the Center of the two yellow guidelines on the left and right, or the central green line and red guide line.



Touch $[A, \Psi, \Phi]$ to adjust the position of the guideline.

• Touching [Clear] clears adjustments and returns to the setting before guideline alteration.

After the adjustment is completed, touch [Set].

Turning Guideline Display On/Off

1. Select the guideline.

2. Touch [On/Off].

The currently selected guide will turn off.

- 3. To turn the guideline on, touch [On/Off] again.
- · Guidelines that are turned off are still adjustable.

Returning Guideline to Default

1. Touch [Default]



2. Touch [OK].

Adjusted values will return to default settings

Setting Hitch Guideline

1. In the Camera Settings screen, touch [Hitch Guideline Adjustment].



- 2. Touch the guideline you intend to adjust. Guideline can also be selected by touching $[\blacktriangle, \nabla]$.
- 3. Touch [+, -] to adjust the position of the guideline.
- 4. After the adjustment is completed, touch [Set].

Connectivity Settings

This menu allows you to set the car connectivity of your system.

In the Setup screen, touch [Connectivity].

Setting Android Auto



In the Connectivity Settings screen, touch [Android Auto].

12:00	
Connectiv	ity Settings
Android Auto	Mandroid Auto
Apple CarPlay	This feature can wrigh be used in it a divice a supporting Android Auto connected with UBB on Blancolon, Other devices connected via USB with start changing.



Check to use your Android phone with Android Auto.

If Android Auto is checked, you can use the functions of your Android phone with a USB cable and Bluetooth connected. It enables the Android Auto functions.

· While Android Auto is running, you cannot use Bluetooth Audio.

Setting Apple CarPlay

This menu allows you to set connectivity When iPhone is connected using a USB cable.

In the Connectivity Settings screen, touch [Apple CarPlay].





Select the desired option.

 Apple CarPlay: uses your iPhone with Apple CarPlay Bluetooth Phone/Audio and iPod: uses your iPhone in Bluetooth/iPod mode.

• This setting is invalid for music playing of iPhone 4S and iPod.

Date/Time Settings

This feature is used to set the time and date shown within the system.

In the Setup screen, touch [Date/Time].



 The Date/Time feature is unavailable when GPS time is being used. To change the date/time manually, turn off the [GPS Time] feature.

Adjust the date and time.

- DD/MM: displays the date in order of day > month
- MM/DD: displays the in order of month > day.

Receiving GPS Time

Check the [GPS Time] box to display the received GPS Time.

• The Date/Time feature is unavailable when GPS time is being used.

Converting Time Format

Check/uncheck the [24 Hours] box to convert the digital clock display to 24 or 12 hours.

Turning Daylight Savings Time On/Off

Check the [Daylight Savings Time] box to turn the feature on.

If This Message Appears

SiriusXM

Check SXM Antenna

- The radio has detected a fault with the SiriusXM antenna. The antenna cable may be either disconnected or damaged.
- Verify that the antenna cable is connected to the SiriusXM Connect Vehicle Tuner.
- Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged.
- SiriusXM products are available at your local car audio retailer or online at http://shop.siriusxm.com.

Check Tuner

- The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.
- Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio

No SXM Signal

- The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.
- · Verify that your vehicle is outdoors with a clear view of the sky.
- Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle.
- · Move the SiriusXM antenna away from any obstructions.
- · Inspect the antenna cable for damage and kinks.
- Consult the SiriusXM Connect Vehicle tuner installation manual for more information on antenna installation. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com.

Subscription Updated

- The radio has detected a change in your SiriusXM subscription status. Press "OK" to clear the message.
- In the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www. siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription.

Channel <xxx> Not Available

- The channel that you have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect Vehicle tuner.
- Visit www.siriusxm.com for more information about the SiriusXM channel lineup.

Channel <xxx> Not Subscribed

- The channel that you have requested is not included in your SiriusXM subscription package or the channel that you were listening to is no longer included in your SiriusXM subscription package.
- In the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription package or would like to subscribe to this channel. In Canada, visit www.siriusxm.ca/ activate or call Customer Care at 1-888-539-7474.

■ Channel <xxx> Locked

The channel that you have requested is Locked by the radio Parental Control feature. See "Setting Parent Lock" for more information on the Parental Control feature and how to access locked channels.

Replay Memory Full

• Buffer for Replay is full.

Replay Memory Near Full

· Buffer for Replay will full within 11 seconds.

Camera Operation

When an optional camera is connected, video of the camera view can be output to the screen of this unit.

Front camera or Rear camera can be connected to this unit.

Set the Camera Status Setting (Rear or Other) according to your connected camera.

Rear camera:

If an HCE-C127D/HCE-C157D/HCE-C252RD, etc., camera is connected, when the vehicle is reversed, the rear camera view (guide marks for vehicle width and available distance) is displayed automatically on the screen of this unit.

Other camera:

Set when connecting to a camera other than the Rear camera, such as a front camera.

You can adjust the quality of the camera image. Setting items: Brightness / Color / Contrast/Hue. Refer to "Visual Settings".

Rear Camera Operation

Displaying the Rear Camera Image from the Menu Screen

Press the All Menus 📊 button.

Or in the Home screen, touch [All Menus].





Touch [Camera].



- Touch [←] to return the previous screen.
- You can perform a Guideline Adjustment. For details, see "Setting Camera Guideline".
- The guidelines will be displayed (or hidden) depending on whether the Guide is turned On/Off.

Displaying the Rear View Video While the car Is in Reverse

1. Shift the gear lever to the reverse (R) position.

The rear view image is displayed while the car remains in reverse.

- 2. If you shift the gear lever to a position other than reverse (R), the monitor returns to the previous screen.
- Never depend solely on the camera when backing up. Always turn and look and only use the camera for additional assistance.
- This function is effective when the reverse wire is properly connected.
- You can perform a Guideline Adjustment. For details, see "Setting Camera Guideline".

Guideline Display On/Off

- 1. Touch the screen when the image from the camera is displayed.
 - The operation screen is displayed on the screen.
- After a 5-second time-out, the operation screen returns to the camera display screen.
- Touch [Guide Off] on the Rear camera display screen. The guide disappears, and then the [Guide Off] switch changes to [Guide On].
- 3. Touch [Guide On] to turn on the guide.

Hitch Guideline Display On/Off

1. Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.

- After a 5-second time-out, the operation screen returns to the camera display screen.
- Touch [Hitch Guide On] on the Rear camera display screen. The hitch guideline is displayed, and then the [Hitch Guide On] switch changes to [Hitch Guide Off].
- 3. Touch [Hitch Guide Off] to turn off the guide.

Switching the Front Camera Image

1. Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.

- After a 5-second time-out, the operation screen returns to the camera display screen.
- 2. Touch [Other View] on the Rear camera display screen. The Front Camera View is displayed, and then the [Other View] switch changes to [Rear View].
- 3. Touch [Rear View] to display the Rear Camera View.

86-EN

About the Rear Camera Guideline

To display the guideline, turn guideline on. Also, to adjust the guide, see "Setting Camera Guideline".

You can also turn off the guideline in the Rear camera display screen.

Indication mark meaning

When the car is put into reverse gear, the monitor switches to the rear view camera image. Guides appear to help visualise the car's width and distance from the rear bumper.



1. Car width extension marks (red, yellow and green in order of distance)

If properly calibrated, the marks indicate the car's width. This helps guide the car's path when backing up in a straight line.

The marks represent the distance from the rear of the car (from the rear end of the bumper).

The marks do not move in synchronisation with the steering wheel. Set the marks to suit the car's width.

2. Distance guidance marks

The marks represent the distance from the rear of the car (from the rear end of the bumper).

- The marks do not move in synchronisation with the steering wheel.
- We recommend that you measure the actual distance to the marks when parked on a level surface.
- Depending on the condition of the car or road surface, the range of vision may vary.
- The camera has a limited range of vision. Objects at extreme angles to the camera (e.g. under the bumper or at opposite ends of the bumper) may not be in the its field-of-vision.
- The rear camera image may have a tint which is different from the actual surroundings.
- Depending on the car, the guidance may deviate to the right or left. This is not a malfunction.

Distance guidance mark

The distance guides represent the ground level distance from the rear bumper. It is difficult to accurately estimate the distance to objects above ground level.

In the following example, the distance to A is 0.5 m and the distance to B is 1 m.

<Screen>



<Positions of A, B and C>



In the screen, according to the distance guidance marks, the truck seems to be parked about 1 m away (at the position B). In actual fact, however, if you reversed to position A, you would collide with the truck.

In the screen, positions A, B and C seem to be located in order of proximity. However, in actual fact, the position A and C are the same distance, and B is farther away than positions A and C.

 The car width extension mark represents the distance to the road surface. The distance to an object on the road is not accurately represented by the guides.

Error between the screen and the actual road surface

In the following conditions, errors are produced between the screen guidance and the actual road surface. (The illustrations represent a case when the camera is installed in the standard position.)

When there is a steep upward slope behind the car (example)

<Screen>



Distance guidance marks

<Situation of the car>



Error Error

The distance guidance mark represents the distance to a flat road surface. Therefore, in the case of an upward slope behind the car, the distance guides are displayed closer to the rear bumper than the actual distance. For example, if there is an obstacle on the upward slope, it may appear farther away than its actual position. Also, an error may occur between the guidance and the actual path

When there is a steep downward slope behind the car (example)

<Screen>

of the car on the road surface.



<Situation of the car>



In the case of a downward slope behind the car, the distance guides are displayed farther from the rear bumper than the actual distance. If there is an obstacle on the downward slope, it seems closer than its actual position.

Also, an error may occur between the guidance and the actual path of the car on the road surface.

Information

Product Software Update

This product use software that can be updated through a USB flash drive. Download the software from the Alpine website and update the product using the USB flash drive.

Updating this product

Check the Alpine website for details on updating. http://www.alpine-europe.com

Important information on the software

About the software license of the product

The software installed in the product contains open-source software. See the following Alpine website for details on the open source software.

http://www.alpine.com/e/research/oss/

Cautions about Discs

Moisture Condensation

You may notice the disc playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.

Damaged Disc

Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Never Attempt the Following

Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.

Do not attempt to insert a disc into the unit when the unit power is off.



Inserting Discs

Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.

Make sure the label side is facing up when you insert the disc. "Disc error" will be displayed on your player if you insert a disc incorrectly. If "Disc error" continues to be displayed even though the disc has been inserted correctly, push the RESET switch with a pointed object such as a ballpoint pen.

Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

Irregular Shaped Discs

Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.

Do not attempt to insert a disc into the unit when the unit power is off.



New Discs

To prevent the disc from jamming, "Disc error" is displayed if discs with irregular surfaces are inserted or if discs are inserted incorrectly. When a new disc is ejected immediately after initial loading, use your finger to feel around the inside of the center hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again.



Installation Location

Make sure the unit will not be installed in a location subjected to:

- Direct sun and heat
- · High humidity and water
- · Excessive dust
- · Excessive vibrations

Correct Handling

Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.



Disc Cleaning

Fingerprints, dust, or soil on the surface of the disc could cause the DVD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the center of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.



Disc Accessories

There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause operational problems. We recommend not using these accessories on discs played in Alpine DVD players.



Discs Playable on This Unit

Playable Discs

The discs listed below can be played on this unit.

	Mark (logo)	Recorded Content	Disc size
DVD Video	VIDEO	Audio + Video	12 cm*
Music CD		Audio	12 cm
Video CD	DIGITAL VIDEO	Audio + Video	12 cm

* Two-layer DVD disc compatible

Discs that cannot be played

DVD-ROMs, DVD-RAMs, CD-ROMs (excluding MP3/WMA/AAC/WAV files), photo CDs, etc.

DualDisc

This unit is not compatible with DualDisc.

Using a DualDisc may cause unit malfunction, and may cause disc damage when the disc is inserted/ejected.

DVD region number (playable region number)

This DVD player will play back any disc whose region number is 2 (or All). DVDs with a region number other than those listed below, cannot be played on this DVD player.



Video CDs

This DVD unit is compatible with playback control (PBC) compatible video CDs (version 2.0).

"PBC" is a function by which you can use menu screens recorded on the disc to find the scene you want to watch and view various types of information in dialog style.

Using compact discs (CD/CD-R/CD-RW)

If you use unspecified compact discs, correct performance cannot be guaranteed.

You can play CD-Rs (CD-Recordables)/CD-RWs (CDReWritables) which have been recorded only on audio devices.

You can also play CD-Rs/CD-RWs containing MP3/WMA/AAC/ WAV formatted audio files.

- Some of the following discs may not play on this unit: Flawed discs, discs with fingerprints, discs exposed to extreme temperatures or sunlight (e.g., left in the car or this unit), discs recorded under unstable conditions, discs on which a recording failed or a re-recording was attempted, copy-protected CDs which do not conform to the audio CD industry standard.
- Use discs with MP3/WMA/AAC/WAV files written in a format compliant with this unit.

To customers using CD-R/CD-RW

- If a CD-R/CD-RW cannot be played back, make sure the last recording session was closed (finalized).
- Finalize the CD-R/CD-RW if necessary, and attempt playback again.

Tips for making your own discs

The unit plays DVD Video, Video CD, Audio CD and has a built in MP3/ WMA/AAC decoder.

The following information is designed to help you create your own music CDs (either Audio CD or MP3/WMA/AAC encoded CD-R/ RW files).

What is the difference between an Audio and MP3/WMA/AAC CD?

An Audio CD is the same format as the commercial CDs you buy in the store (also known as CD-DA). MP3 (MPEG Audio Layer 3)/ WMA (Windows Media Audio)/AAC (Advanced Audio Coding) is a data file that uses a compression scheme to reduce the size of the music file*. * If the first session on a disc containing both CD-DA data and MP3/

WMA/AAC data is a CD-DA file, only CD-DA files will be played.

Multisession CD-R/RW:

Once a recording has been stopped, this is considered one session. If the disc is not closed (finalized), additional data may be added. Once this additional data has been recorded, this becomes a "multisession" CD.

Properly formatted MP3/WMA/AAC Discs:

Use ISO9660 formatting to insure proper playback. You may use standard ISO naming Level 1 (8.3 DOS standard), Level 2 (32 characters) or Joliet (Windows or Macintosh long filenames) file naming conventions*.

* Please consult the Owner's manual for additional information.

On handling compact discs (CD/CD-R/CD-RW)

- · Do not touch the surface.
- · Do not expose the disc to direct sunlight.
- · Do not affix stickers or labels.
- · Clean the disc when it is dusty.
- · Make sure that the disc is smooth and flat.

· Do not use commercially available disc accessories.

Do not leave the disc in the car or the unit for a long time. Never expose the disc to direct sunlight.

Heat and humidity may damage the disc and you may not be able to play it again.

Using DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs

- This unit is compatible with discs recorded in the standard DVD-Video format.
- Note that discs not finalized (processed to enable to play on playback-only DVD players) cannot be played on this DVD player.
- Some discs may not play back, depending on the recording device and disc format.
- Discs or files utilising copy protection, may not be playable. Some recording systems may not properly format copied files to enable proper playback.
- In the following cases, the disc may not play on this unit: discs recorded by certain DVD recorders, certain irregular discs, flawed discs, dirty discs, when the pickup lens of this DVD player is dirty, or when moisture condensation has occurred inside the unit.
- Be sure to follow all cautions included with your DVD-Rs/ DVD-RWs/DVD+Rs/DVD+RWs discs.
- Do not put stickers, seals, or tape on the label side of DVD-Rs/ DVD-RWs/DVD+Rs/DVD+RWs.
- Compared to the regular discs, DVD-Rs/DVD-RWs/DVD+Rs/ DVD+RWs are more affected by heat, moisture, and direct sunlight. If left in a car, etc., damage may occur and it might not play on this unit.
- The operable temperature range for disc playback is as follows: DVD-R/DVD-RW: 25 to +70 $^\circ C$

DVD+R/DVD+RW: +5 to +55°C

About the Supported Formats

For the list of video formats supported from a USB flash drive, see "About USB Video format" (page 45).

About MP3/WMA/AAC/FLAC/OGG/APE/MP2

A Caution

Except for private use, duplicating audio data (including MP3/WMA/AAC/FLAC data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardisation Organisation and MPEG which is a joint activity institution of the IEC. MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realises such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data.

What is AAC?

AAC is the abbreviation for "Advanced Audio Coding," and is a basic format of audio compression used by MPEG2 or MPEG4.

What is FLAC?

FLAC (Free Lossless Audio Codec) is an audio file codec for lossless compression, developed and offered as open source software. Codecs with lossy compression forms, such as MP3 and AAC, reduce part of the data to improve compression efficiency. However, FLAC can reconstruct compressed data to be an identical

copy of the original data by performing lossless compression. The compression ratio of FLAC is about 50%.

Method for creating MP3/WMA/AAC/FLAC (USB Flash drive) files

Audio data is compressed using software with MP3/WMA/AAC/ FLAC (USB Flash drive) codecs. For details on creating MP3/WMA/ AAC/ FLAC (USB Flash drive) files, refer to the user's manual for that software.

MP3/WMA/AAC/FLAC (USB Flash drive) files that are playable on this device have the file extensions.

MP3: "mp3" WMA: "wma" AAC: "aac" FLAC: "flac"/"fla" OGG: "ogg" APE: "ape" MP2: "mp2"

WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 10 std or Windows Media Audio 10 Pro Lossless.

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It's possible that the format may be unplayable even though the extension is valid.

Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3 (USB Flash drive) Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11,025 kHz, 8 kHz Rit rates: 8 - 320 kbps WMA (USB Flash drive) Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz, 16 kHz, 11.025 kHz. 8 kHz 48 - 320 kbps Bit rates: AAC (USB Flash drive) Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz Bit rates: 16 - 320 kbps FLAC (USB Flash drive) Sampling rates: 96kHz, 88.2kHz, 48kHz, 44.1kHz, 32kHz, 24kHz, 22.05kHz, 16kHz, 8kHz Channel number: 1ch. 2ch This device may not play back correctly depending on sampling rates

OGG (USB Flash drive) Sampling rates: Up to 48kHz Bit rates: 8 - 500 kbps

APE (USB Flash drive) Sampling rates: Up to 48kHz Channel number: 1ch, 2ch

MP2 (USB Flash drive) Sampling rates: Up to 48kHz Bit rates: 16 - 384 kbps

ID3 tags/WMA tags

This device supports ID3 tag v1.0, v1.1, v2.2, v2.3, v2.4, and WMA tag Ver.1.x. If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/ WMA tag data.

For non-supported characters, "?" is displayed.

The number of characters may be limited, or not correctly displayed, depending on the tag information.

Playing back MP3/WMA/AAC/FLAC

MP3/WMA/AAC/OGG/APE/MP2 files are prepared, then written to a USB flash drive.

- Maximum numbers of playable files/folders USB Flash drive: 5,000 files/ 2,000 folders (including Root Folder)
- · Largest playable file size: 512 MB

Playback may not be performed if a disc exceeds the limitations described above.

If a file/folder name is long, the maximum possible number of files may decrease.

 Both Audio and Video files are counted if their formats are playable on this unit.

Media supported

Media devices supported

This unit can play back supported files from a USB flash drive, iPod, iPhone or Android phone connected to the unit.

Corresponding File Systems

This device supports FAT 16/32

The maximum nested folder depth is 15 (including the root directory). File names are limited to 256 characters (including the extension). Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore). Special Characters $\sim !@#\$\%^{0}(+`-=;', 0)$ (except : V:*?"<)).

Order of files

Files are played back in the order that the writing software writes them to the disc. Therefore, the playback order may not be what's expected. Verity the writing order in the software's documentation. The playback order of the folders and files is as follows. (The following numbers may differ from actually displayed numbers.)



Terminology

Bit rate

This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC/FLAC/OGG/APE/MP2 (USB flash drive) files.

Root folder

The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all burned discs.

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected, or then consult your authorized Alpine dealer.

Basic

No function or display.

- · Vehicle's ignition is off.
 - If connected according to the instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead connections
- Check power lead connections
- Blown fuse.
 - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise, etc.
 - Press the RESET switch with a ballpoint pen or other pointed article.

No sound or unnatural sound.

- · Incorrect setting of volume/balance/fader controls.
- Readjust the controls.
- Connections are not properly or securely made.
- Check the connections and firmly connect.

Screen not displayed.

- · Brightness/Contrast control is set at the minimum position.
- Adjust the Brightness/Contrast control.
- · Temperature in the vehicle is too low.
- Increase the vehicle's interior temperature to operation temperature range.
- · Connections to the Auxiliary Device are not securely made.
- Check the connections and firmly connect.
- The Parking Brake Lead is not connected.
- The Parking Brake is not engaged.
 - Connect the Parking Brake Lead, then engage the Parking Brake.

Movement of displayed picture is abnormal.

- · Temperature in the vehicle is too high.
 - Allow the vehicle's interior temperature to cool.

The optional remote control is inoperative.

- The remote control sensor setting of "Using Remote Control" (page 82) is not set to this unit ("AVN")
 - Set for "AVN"

Radio

Unable to receive stations.

- · No antenna, or open connection in the antenna cable.
 - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.

- · You are in a weak signal area.
- Make sure the tuner is in DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
 - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- · The antenna may not be the proper length.
 - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.

- · The antenna is not the proper length.
- Extend the antenna fully; replace it if it is broken.
- · The antenna is poorly grounded.
 - Make sure the antenna is grounded properly at its mounting location.
- · The station signal is weak and noisy.
 - If above solution does not work, tune in another station.

USB Audio

Unit does not operate.

- Condensation.
 - Wait a while (about 1 hour) for the condensation to dry.

Picture is unclear or noisy.

- · Vehicle's battery power is weak.
 - Check the battery power and wiring. (The unit may malfunction if the battery power is under 11 volts with a load applied.)

Rear Seat Entertainment System

DVD sound is not being output from the rear monitor headphones.

- The external audio processor and DVD Player (DVE-5300) are optically connected.
 - Set the Audio Out of the DVD Player to "LPCM."

Disc

Disc playback sound is wavering.

- · Moisture condensation in the disc module.
 - Allow enough time for the condensation to evaporate (about 1 hour).

Disc insertion not possible.

- A disc is already in this unit.
- Eject the disc and remove it.
- The disc is being improperly inserted.
- Insert the disc correctly. (See page 89)

Unable to fast-forward or fast-reverse the disc.

- · The disc has been damaged.
 - Eject the disc and discard it; using a damaged disc in your unit can cause damage to the mechanism.

Disc playback sound skips due to vibration.

- Improper mounting of the unit.
- Securely re-mount the unit.
- Disc is very dirty.

- Clean the disc.

Disc has scratches.

- Change the disc.

- · The pick-up lens is dirty.
 - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer.

Disc playback sound skips without vibration.

- · Dirty or scratched disc.
 - Clean the disc; a damaged disc should be replaced.

CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW playback not possible.

- · Close session (finalization) has not been performed.
 - Perform finalization and attempt playback again.

Error displays.

- · Mechanical error.
 - Press
 After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest Alpine dealer.

MP3/WMA/AAC is not played back.

- · Writing error occurred. The CD format is not compatible.
 - Make sure the CD has been written in a supported format. Refer to "About MP3/WMA/AAC", then rewrite in the format supported by this device.

Unit does not operate.

- Condensation.
 - Wait a while (about 1 hour) for the condensation to dry.

Playback does not start.

- · Disc is loaded upside-down.
- Check the disc and load it with the labeled side facing upward.
 Disc is dirty.
- Clean the disc
- · A disc not able to play back with this unit is loaded.
- Check if the disc is able to be played back.
- · Parental lock is set.
 - Cancel the parental lock or change the rating level.

Picture is unclear or noisy.

- · Disc is being fast-forwarded or fast-reversed.
- The picture may be slightly disturbed, but this is normal.
- · Vehicle's battery power is weak.
 - Check the battery power and wiring. (The unit may malfunction if the battery power is under 11 volts with a load applied.)

Image stops sometimes.

- · Disc is scratched.
 - Replaced with a non-scratched disc.

Navigation

- The Navigation cannot work properly.
- Reset Navigation system.
 - Turn the ignition key off, and then set to ON again.

Error Messages

Various messages are displayed on the screen during operation. In addition to the messages telling you the current status or providing guidance for the next operation, there are also the following error messages. If one of these error messages is displayed, carefully follow the instructions in the solution column.

System

If you are driving, please pull over and park before using this function.

- A setup operation, etc., was attempted while the vehicle was running.
 - Move the vehicle to a safe location, stop, and engage the parking brake, then carry out this operation.

Unknown Error

 If the USB video file is damaged or the codec is unknown, please check if the video file can be played.

This format is not supported.

- · A USB Video file that is not supported by this unit is selected.
 - Check if the video file is playable by seeing "Supported USB Video Format" (page 45).

Audio/Visual

The device does not support media function.

- An iPod/iPhone/Android Phone that is not supported by the unit is connected.
 - Connect an iPod/iPhone/Android Phone that is supported by the unit. - Reset the iPod.
- · A USB device that is not supported by the unit is connected.
- Attempt to connect another USB flash drive.
- · Communication error.
 - Turn the ignition key off, and then set to ON again.
 - Check the display by reconnecting between the iPod/iPhone/Android Phone and the unit, using the iPod/iPhone/Android Phone cable.
 - Check the display by reconnecting between the USB flash drive and the unit.
- Caused by the iPod/iPhone/Android Phone Software Version not being compatible with this unit.
 - Update the iPod/iPhone/Android Phone Software Version to be compatible with this unit.
- The iPod/iPhone/Android Phone is not verified.
 - Change to another iPod/iPhone/Android Phone.

There are no Media files available.

- · There are no data in the iPod/iPhone/Android Phone.
 - Download data to the iPod/iPhone/Android Phone and connect to the unit.
- · There are no data in the USB flash drive.
- Download data to the USB flash drive and connect to this unit.
- If Android Auto does not work properly after the Android Phone Connect

- Please disconnect and reconnect your smartphone and try again.

Bluetooth

Connection Error.

- Please delete device from your Phone and Navigation system then try again.
- · The Bluetooth audio device was not connected correctly.
 - Check the settings for the unit and the Bluetooth audio device and reconnect.

Unable to download phonebook.

- · Phonebook failed to read due to mobile phone disconnection, etc.
 - Check the mobile phone connection, and then conduct synchronising and adding again. (See page 61)
- The connected mobile phone does not support synchronising of its phone book.
 - Connect the mobile phone that supports synchronising the phone book, then synchronise again. (See page 61)

DISC

Disc Load Error

- · When the inserted disc CD is not read properly
 - Re-insert disc again to check
 - Check if the disc is a normal disc

Region error

- · When inserting a DVD with unsupported Region Code
 - Check the region code of the DVD CD

Unknown Error

- Displayed when an unknown error occurs on the inserted Disc CD.
 - Check if the Disc CD is damaged
 - Check if the Disc CD is inserted correctly

This file is not supported.

- Displayed when attempting to play unsupported media file (codec, etc.)
 - Check the media files in Disc CD
 - Check if Codec or file is supported

There is no media files.

- · Displayed if there is no playable media file
 - Check if there is media file exists in the Disc CD

Specifications

MONITOR SECTION

Screen Size LCD Type Operation System Number of Picture Elements

Effective Number of Picture Elements Illumination System

FM TUNER SECTION

Tuning Range Mono Usable Sensitivity 50 dB Quieting Sensitivity Alternate Channel Selectivity Signal-to-Noise Ratio Stereo Separation Transparent type TN LCD TFT active matrix 1,152,000 pcs. (800 × 480 × 3 (RGB)) 99% or more LED

6.5" (INE-W970HD)

Bluetooth SECTION

Bluetooth Specification
Frequency band
Output Power
Profile

Bluetooth V4.0 2,402 – 2,480 MHz '-6-+4 dBm Ave. (Power class 2) HFP (Hands-Free Profile) PBAP (Phone Book Access Profile) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile)

GENERAL

Power Requirement

Operating temperature

-4°F to +140°F (-20°C to + 60°C)

14.4 V DC (11-16 V allowable)

Power Output16 W RMS \times 4*2• Power output: measured at 4 Ohms and \leq 1% THD+N

S/N: 80 dBA (reference: 1 W into 4 Ohms)

Audio output level	
Preout (Front, Rear):	4V/10k ohms (max.)
Preout (Subwoofer):	4V/10k ohms (max.)
Weight (unit only)	2.05kg

CHASSIS SIZE

Width	178 mm
Height	100 mm
Depth	142 mm

NOSE SIZE (FACE PLATE W/O)

Width	178 mm
Height	100 mm
Depth	21.3 mm

Alternate Channel Selectivity Signal-to-Noise Ratio Stereo Separation

Tuning Range Usable Sensitivity

530 – 1,710 kHz 25.1 μV/28 dBf

87.7 - 107.9 MHz

80 dB

65 dB

35 dB

9.3 dBf (0.8 µV/75 ohms)

13.5 dBf (1.3 µV/75 ohms)

USB SECTION

USB requirements	USB 2.0
Max. Power Consumption	1,500 mA (CDP Support)
USB Class	USB (Mass Storage Class)
File System	FAT16/32
Decoding Format	MP3/WMA/AAC/FLAC/OGG/APE/MP2
Number of Channels	2-Channels (Stereo)
Frequency Response*1	5-20,000 Hz (±1 dB)
Total Harmonic Distortion	0.016% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	85 dB
Channel Separation	75 dB (at 1 kHz)

*1 Frequency response may differ depending on the encoder software/bit rate.

HDMI SECTION

Input Format

480p/720p

GPS SECTION

GPS Reception frequency	1,575.42 ±1 MHz
GPS Reception sensitivity	-130 dBm max.

DISC AUDIO SECTION

File Format	MP3, WMA7, WMA8, WMA9
Extensions	mp3, wma
Bit rate	16kbps ~ 320 kbps
Sampling Rate	8K~ 48 KHz
Frequency response (20Hz ~ 20KHz)	0±1dB
Signal to Noise radio	≥ 85dB
THD (Total harmonic distortion)	≤0.06%
Dynamic Range (1kHz)	≥ 80dB
R/L Cross sound	≥ 75dB

DISC IMAGE SECTION

File Format	JPEG, PNG, GIF, BMP
Extensions	JPEG, PNG, GIF, BMP

DISC VIDEO SECTION

File Format	AVI, MPG, FLV, DAT, VOB, MP4, MOV, OGG, ASF
Extensions	avi, mpg, mpeg,dat, flv, vob, mp4, mov, ogg, asf
Video Codec	MP4V, MPEG-1, MSVC, MPEG-1/MPEG-2, H.263,
Video	720*480/576 (30fps)
Resolution	Response Sampling Rate : 8,11.025, 16,22.05, 24, 32, 44.1, 48 KHz Response Bitrate : 45~500Kbps. (WMA : 8K~48KHz, 16kbps~320kbps)
Audio Codec	Dolby Digital(AC3),WMA/PCM/LPCM,AAC LC (2ch),MPEG- Audio,(MP1/MP2/MP3) LPCM, uLaw/aLaw, OGG, WMA
Subtitles	SMI
Unsupported files	1. Video with OGG 2. Audio formats other than Vorbis with OGG 3. Vorbis format in AVI

 CVBS
 0.7±0.1 V p-p

 Video Signal Level
 0.3±0.1 V p-p

 Sync Level
 1.0±0.1 V p-p

 S-VIDEO Level
 1

 Y
 1.0±0.1

 C
 0.3±0.1

- Due to continuous product improvement, specifications and design are subject to change without notice.
- The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.

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User Manual

Navigation software for Alpine Navigation System

English

July 2019, ver. 1.0

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1 Getting started

Alpine navigation is optimised for in-car use. You can use it easily by tapping the screen buttons and the map with your fingertips.

When you start using the product, you can download new maps in the next.

1.1 Initial set-up

When using the navigation software for the first time, an initial set-up process starts automatically.

1. Select your preferred language, then tap can change it in Regional settings (page 77).

\mathbb{A}	Language	
	English (US)	
	Español (MX)	
٠	Français (CA)	
	Select	
_	Next	

2. The Configuration Wizard starts. Tap

to continue.

3. Select the language and speaker used for voice guidance messages. Later you can change it in

Next

Regional settings (page 73). Tap

р		to continu	e.
A	Voice Language	🗴 6:36 am	ϕ
	English (US) Amy	Street names Natural Voice	
	English (US) _{Dave}	Street names Natural Voice	
	English (US) _{Jason}	Street names Natural Voice	
-	Español (CR) ^{Carlos Tico}	Street names Natural Voice	₹
	Español (MX)	Street names	
	Back	Next	

4. If needed, modify the time format and unit settings. Later you can change them in Regional

settings (page 77). Tap	Next to cont	inue.
	Units and Formats	🗴 6:36 an
	Distance Miles/feet	
	Coordinate Display Format	8
	Back	Next

5. If needed, modify the default route planning options. Later you can change them in Route

		Next		
	Preferences (page 70). Tap	· · · · · · · · · · · · · · · · · · ·	to continue.	
		Route Preferences	🗴 6:36 an 🧼	
		Vehicle ^{Car}		
		Route Planning Method		
		Navigation Mode		
		Road type	s 🗸 🗸	
		Treeways	on	
		Back	Next	
6.	The initial set-up is now comple	Fini	sh to enter	the Navigation view.
		Configuration Wizard compl	eted. 🗴 7:03 🖛 🥏	
		You have completed the initia Configuration Wizard any time or Settings n	I setup. You can run this change other options in the enu.	
		Back	Finish	

1.2 Screen controls

The following sections describe the functionality and use of buttons, sliders, and other screen controls in Alpine navigation.

1.2.1 Using the buttons and other controls

To operate Alpine navigation, tap the buttons on the touch screen.

Туре	Example	Description	Function
Button	New Route	Opens a new screen where you can set a parameter.	Tap it once.
Button with value	Viewpoint Normal	Displays the current value of a field or setting where the value can be changed. After the change, the new value is shown on the button.	Tap it once.

Icon	<u>e</u>	Provides additional information, for example traffic summary or itinerary.	Tap it once to open a screen with additional information or options.
List	 Language English (US) Español (MX) Français (CA) CA 	Shows multiple options.	Grab the list anywhere and slide your finger up or down. Depending on the speed of sliding, the list scrolls fast or slow, only a bit or till the end. Alternatively, move between items in a list with the arrows and tap the value that you want to select.
Switch	on	Shows whether a feature is enabled when there are only two choices.	Tap it to turn the switch on or off.
Slider		When a feature can be set to different values in a range, Alpine navigation shows an indicator on a gauge that displays and sets the value.	Drag the handle to move the slider to its new position. Tap the slider where you want the handle to appear.
Virtual keyboard	Select Street Y 740- G Fei Dante Ferrari Way New York Kirk Mano Staten island. 10304/10305 This Jacoba Ma. Car a d d d d d d d d d d d d d d d d d	Used to enter text and numbers.	Each key is a touch screen button.

The Navigation menu may contain several menu items on one or more pages.

^	Main Menu			🖈 7:07 pm	2
	88	.>•	a constante da la constante da	i	
<	New Route	Multipoint Route	Traffic	Useful Information	>
-		•		/	tole
	Ľ	<u>:1</u>		X	M
	Add Waypoint	Detours & Alternatives	Route Summary	Delete Route	4
	-/-···	± ∢) 31	0		(

You need to confirm selections or changes only if the application needs to be restarted, if it needs to perform a major reconfiguration, or if you are about to lose some of your data or settings. Otherwise, Alpine navigation saves your selections and applies the new settings without confirmation as soon as you use the controls.

1.2.2 Using the cursor

You can select a map location in the following ways:

- By tapping the map when navigating ٠
- By tapping the map when you are asked to confirm the destination at the end of a search. ٠



When a map location is selected, the cursor () appears at the selected point on the map.

The location of the cursor can be used as the destination of the route, you can search for Places around it, or you can add this location to your saved locations.

You can also select some of the objects on the map. If you tap the map at the icon of a Place, the object is selected, and you can get information about this object or you can use it as a route point.

1.2.3 Using the keyboard

You can type with your fingertips on the screen keyboards and you can switch between various keyboard layouts, for example English, Greek or numerical. Only those keyboard buttons are active that can be used to type a name that is available on the map. The other keys are greyed out.

Action	Function	
Switching to another keyboard layout, for example from an English keyboard to a Greek keyboard	Tap and select the new keyboard layout from the list.	
Correcting your entry on the keyboard	Tap to remove the unnecessary character(s). Tap and hold the button to delete several characters or the entire input string.	
Entering a space, for example between a first name and a family name or in multi-word street names	Tap the Space button at the bottom center of the screen.	
Entering upper and lower case letters	By default, when entering a text, the first character appears in upper case while the rest of the text is in lower case. Tap upper case letter or tap it twice to turn on Caps Lock. Tap again to use lower case letters.	
Entering numbers and symbols	Tap 123 to switch to a keyboard offering numbers and symbols.	

Finalizing the keyboard entry	Тар
Hiding the keyboard	Тар

1.2.4 Using touch gestures

You usually need to tap the screen only once. However, some useful features can be accessed with other gestures. See the table below.

Action	Function
Tapping and holding the screen	 Tap and keep pressing the following buttons to reach extra functions: Tap and hold the following button on list and menu screens to show the Navigation view: Tap and hold any of the following buttons on the Navigation view to rotate, tilt, or scale the map continuously: Tap and hold the following button on keyboard screens to quickly delete several characters: Tap and hold the following buttons in long lists to scroll pages continuously: A mathematical and hold the following buttons in long lists to scroll pages continuously:
Dragging	 Drag the screen in the following cases: To move the handle on a slider. To scroll a list: grab the list anywhere and slide your finger up or down. Depending on the speed of the sliding, the list scrolls faster or slower, only a bit or till the end. To move the map in map browsing mode: grab the map, and move it in the desired direction.
1.2.5 Manipulating the map

If you tap the map anywhere during navigation, the map stops following the current position (the blue arrow is not locked in a fix position on the screen anymore) and control buttons appear to help you modify the map view.



You can perform the following actions on the map:

Action	Button(s)	Function
Checking location information	No buttons	The top section of the Navigation view shows information about the selected point (the cursor).
Moving the map by dragging	No buttons	Move the map in any direction: tap and hold the map and move your finger towards the direction you want to move the map.
Zooming in and out	€, Q	Change how much of the map is displayed on the screen. Alpine navigation uses maps that let you examine the locations at various zoom levels, always with optimised content. It always displays street names and other text with the same font size, never upside-down, and you only see the streets and objects that you need. Map scaling has a limit in 3D map view mode. If you zoom out further, the map switches to 2D view mode. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.
Tilting up and down	æ 🖽	Change the vertical view angle of the map in 3D mode. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.
Rotating left and right	ල හ ව	Changes the horizontal view angle of the map. Tap once to modify the view in a large step, or tap and hold the button to modify it continuously and smoothly.

Changing 2D, 3D, or 2D North up views	3D , 2D , 2D	Switch between the 3D perspective, 2D Heading up, and 2D North up map view modes. In Heading up mode the map is rotated so its top always points in the current driving direction. This is the default orientation in 3D map view mode. In North up mode, the map faces North.
Checking the compass	•	The direction of the compass shows North.
Selecting additional options	^	Open a list of additional features like saving a location, or searching for Places around the cursor.
Selecting a destination	Select as Destination	Select the cursor location as a new destination. The route is automatically calculated.

1.3 Navigation view

The navigation view is the main screen of Alpine navigation that shows the planned route on a map. Alpine navigation works with digital maps which are not simply the computerised versions of traditional paper maps. Similarly to paper road maps, the 2D mode of digital maps shows you streets and roads. Elevation is also illustrated in color.

The navigation view displays the following screen buttons, data fields, and route information on the map during navigation:



Note! Some buttons, fields, or icons may not be available in your product version.

Number	Name	Description
1	Current position marker	The current position is displayed as a blue arrow by default. When there is no GPS position, the current position marker is transparent and it shows your last known position. See page 14.

2	GPS position	The dot near the arrow shows the GPS position as perceived by the GPS receiver. See page 14.	
3	Planned route	The planned route is displayed as an orange line.	
4	Data fields	 Three data fields show the following information: The estimated time of the arrival at the destination. The remaining time of the trip. The remaining distance to the destination. You can change the default values in Settings (page 75) or by tapping and holding the area where the data fields appear. If you have not selected a destination, you can see your heading instead of the three data fields. 	
5	Next turn preview	It shows the type of the next maneuver and its distance. See page 15.	
6	Second next turn preview	It shows the type of the second next maneuver if it is near the first one. See page 15.	
7	Next street	It displays the name of the next street. See page 15. If you have not selected a route destination, you can see nearby house numbers, if they are available.	
8	Sound	Set the volume or mute the navigation.	
9	Destination menu	It appears near the destination. By tapping it, you can check the trip summary, find Places around your final destination, save the current location, or suspend the navigation.	
10	Traffic	It shows traffic-related information. (The live Traffic feature is not available in North America.)	
11	Lane information	On multi-lane roads, it shows the lanes ahead and their directions. The highlighted arrows represent the lanes and direction you need to take. See page 17.	
12	Alert point warning	It shows the type of the alert points when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it. See page 73.	
13	Speed limit warning	It shows the current speed and the speed limit when speeding. See page 73.	
14	Warning road sign	It shows warning for the current road (for example, dangers, sharp curves). See page 73.	

15	Signpost	It shows the available destinations and the road numbers. See page 17.
16	Freeway services	By tapping it, you can check the details of the next few service stations (gas stations, restaurants) when traveling on a freeway. See page 19.
17	Navigation menu	By tapping it, you can open the Navigation menu, where you can reach other parts of Alpine navigation.
18	Street name	It shows the current street name. By tapping it, you can open the Where Am I screen. See page 68.
19	3D objects	They display hills, mountains, roads, landmarks, and buildings in 3D.

If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. See page 18.



When entering a tunnel, the map is replaced with a generic tunnel image. See page 18.



1.3.1 Streets and roads

Alpine navigation shows the streets similarly to paper road maps. Their width and colours correspond to their importance; you can easily tell a freeway from a small street.

1.3.2 GPS position markers

When your GPS position is available, Alpine navigation marks your current position. By default, this marker is a blue arrow. The dot near the arrow shows the GPS position as perceived by the GPS receiver.

When on-road navigation is selected, the current position marker may not show your exact GPS position and heading. If roads are near, it is aligned to the nearest road to eliminate GPS position errors, and the direction of the icon is aligned to the direction of the road. If you select off-road navigation, the current position marker is at your exact GPS position. The direction of the icon shows your current heading.

1.3.3 Turn preview and next street

When navigating a route, the top section of the Navigation view shows information about the next route event (maneuver) and the next street or the next town.



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

A smaller icon shows the type of the second next maneuver if it is near the first one. Otherwise, only the next maneuver is displayed. Tap the icon of the actual maneuver to open the Itinerary screen.

1.3.4 The planned route

The planned route is the currently navigated route. Whenever the destination is set, the route is active until you delete it, reach your destination or suspend navigation. Alpine navigation displays the route in the following ways:

Symbol	Name	Description
	Current GPS position and starting point	 It is your current position displayed on the map. If a vehicle is selected for route calculation and roads are near, the arrow jumps to the nearest road. Normally, if GPS position is available, the route starts from the current position. If there is no valid GPS position, Alpine navigation uses the last known position as the starting point.
▲ :	Waypoint (intermediate destination)	It is an intermediate destination of the route before reaching the final destination.
×	Destination (end point)	It is the final destination of the route.

Route color	The route always stands out with its color on the map, both in daytime and night color modes.
Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types (page 70). However, when Alpine navigation cannot avoid such roads, the route includes them and shows them in a color that is different from the route color.

1.3.5 Maneuver icons

During navigation the next maneuver is displayed in the top left corner. Most of the maneuver icons are intuitive. The following table lists some of the frequently shown route events:

Icon	Function
F	Turn left.
	Turn right.
A	Turn back.
Ť	Bear right.
Y	Turn sharp left.
Ţ	Keep left.
1	Continue straight in the intersection.
	Enter the traffic circle and take the first exit (next maneuver).
\mathbf{i}	Enter the traffic circle (second next maneuver).
芇	Enter the freeway.

Ť	Exit the freeway.
	Board the ferry.
	Leave the ferry.
▶ •	Approaching a waypoint on the right.
×	Approaching the destination.

1.3.6 Lane information

When navigating on multi-lane roads, it is important to take the appropriate lane in order to follow the planned route. If lane information is available in the map data, Alpine navigation displays the lanes and their directions using small arrows at the bottom of the map. Highlighted arrows represent the lanes and the direction you need to take.



1.3.7 Signposts

If necessary information is available, Alpine navigation displays signposts at the top of the map. The color and style of the signposts are similar to the real ones you can see above roads or by roadsides. They show the available destinations and the road numbers.

All signposts look similar when cruising (when there is no planned route). During navigation only the signpost that points to the lane(s) to be taken is highlighted; all the others are darker.

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



You can modify the signpost settings in

1.3.8 Junction view

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

If you want to hide the currently displayed junction and return to the Navigation view, tap the picture.



Junction view can be turned off in

1.3.9 Tunnel view

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



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

After leaving the tunnel, the original map view returns.



1.3.10 Freeway services

When you are driving on a freeway, the button appears at the top right corner of the Navigation view. Tap it to open a panel with the details of the next few service stations (gas stations, restaurants).



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

If you want to display other types of Places at the next few service stations, you can change the icons in



. See page 75.

1.3.11 3D object types

Alpine navigation supports the following 3D object types:

Туре	Description
3D terrain	Alpine navigation displays 3D hills and mountains in the Navigation view, and illustrates them by colouring and shading on the 2D map.
Elevated roads	Elevated roads are complex intersections and vertically isolated roads (such as overpasses or bridges) displayed in 3D.
3D landmarks	Landmarks are 3D representations of prominent or well-known objects.
3D buildings	3D buildings are block representations of full town building data containing actual building sizes and positions on the map.

1.4 Navigation menu

On the Navigation view, tap	to	open th	ne Navig	gation n	nenu.	
	^	Main Menu			X 7:03 pm	\mathcal{P}
			€#1	adero H	RI	5
		ß	.>•	a ?	i	
		New Route	Multipoint Route	Traffic	Useful Information	
		(
		1	* •	3D 🕹		×
	^	Main Menu			🗴 7:07 pm	\mathcal{P}
		pa -	>•	e	0	
		New Route	Multipoint Route	Traffic	Useful Information	
		Ľ	Ľ	0	×	ato
		Add Waypoint	Detours & Alternatives	Route Summary	Delete Route	
			★ ◀) 3	D 🛈 🕻		×

You can see the following menu options when you are navigating without a planned route:

Button	Function
New Route	Select your destination by entering an address or its coordinates, or by selecting a Place, a Saved Location, or a Saved Route. You can also look up your recent destinations from the History.
Multipoint Route	Build your route from one or more route points. You can also plan a route independently of your current GPS position by setting a new starting point.
Useful Information	Access additional options and check navigation-related information.
Ö Settings	Customise the way the navigation software works.
C Update	You can access the latest free map or software updates here.
About	The About section provides you with product information. Read the Software and Database End User License Agreement, or check the map and other contents of the application. You can also access program usage statistics.

With a planned route, the following menu options are also available:

Button	Function
L Add Waypoint	Add an intermediate destination to your route.
Detours & Alternatives	See route alternatives to avoid parts of the route, or to avoid a specific road from your planned route.
D Route Summary	View the route in its full length on the map and check route parameters and route alternatives. Tap to access additional options, like Simulation or Route Preferences.
Delete Route	Delete your route.
Delete Waypoint	Delete the next waypoint or the whole route. It is displayed if there is a multipoint route.

In the navigation menu, you have the following additional options:

Button	Function
★	Open the Saved Locations screen where you can save a location as a favorite destination or edit a saved location.
)	Set the volume or mute the navigation.
3D	Switch to 2D (2D), 2D North up (2D) view or back to 3D mode.
9	Suspend navigation.
0	Resume navigation.
∮	Access the User profiles menu where you can create new profiles or edit the existing ones. If several drivers are using the navigation system, they can create their own profiles with their own settings.
	The Menu button appears when the Navigation view is displayed. Tap it to open the Navigation menu.

^	The More button appears on the screen to display additional features. Tap it to open the list of additional features on certain screens.
\leftarrow	Tap the Back button to return to the previous screen. You can also press and hold this button to quickly return to the Navigation view from any other screen.

2 Warnings and safety information

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

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

You must follow the traffic rules. If you deviate from the planned route, Alpine navigation changes the instructions accordingly.

3 Using the navigation

By default, Alpine navigation calculates routes using the road network of the maps provided with the product.

You can select the destination and start navigating to it right away (normal navigation) if you need a route for immediate navigation.

You can also plan a route independently of your current GPS position even without GPS reception. To achieve this, you need to set a new starting point in the Multipoint Route menu. It also suspends guidance so that the route is not recalculated when a new position is received. See page 51.

You can plan routes with multiple destinations by selecting a first and a second destination and adding it to your route. You can add as many destinations to your route as you like. See page 48.

You can also use Alpine navigation for off-road navigation. See page 60.

3.1 Selecting a destination

You can choose your destination by selecting one of the following options:

- Using combined search to search among different destination types at once, see page 24
- Entering a full address or a part of an address, for example a street name without a house number, see page 27
- Selecting a Place as your destination, see page 35
- Selecting a previously saved location as your destination, see page 43
- Selecting a location from the History of previously used destinations, see page 44
- Selecting a previously saved route, see page 45
- Entering the coordinate of the destination, see page 46
- Selecting a location on the map, see page 48
- Planning a multipoint route, see page 48.

3.1.1 Using combined search

There are several ways to select your destination. You can initiate a separate search for addresses, Places, saved locations, or recent destinations, but the fastest way to search for any of these is to use combined search.

Perform the following steps to use combined search:

1. Tap **and** on the **Navigation view** to access the **Navigation menu**.





3. Tap ______. You can see the input field at the top of the screen. Right next to it you can see the search area, the town around which the search is carried out. The default search area is the area where you are located. For a local search, skip the next step.

	Search	in A	11					X 7:3	7 an 🗩
9	lame o	or ac	ddres	s		🕒 Un	ited St	ates, N	New
				,	AU				
Q	W	Е	É F	۲ ^{(۴} ۲	T T	γ°ι	ا (ر)° P
A	A S	Ś	DĎ	F	G	Н	J	Kĸ	L
	Z	Ź	X	C¢	V	В	N ^Ñ	Μ	×
		1:	23)	Ŵ

4. (optional) To search in a different area, tap the input field with the search area, and start entering the name of the new search area on the keyboard.

🔺 Sea	rch in A	A11					k 7:	37	9
Q Name or address (City, ZIP code,									
United	State	s, Ne	w Yorl	k					
QW	/ E	ÊF	τ ^A F	ΓÎΝ	r°ι	ا (ر		D°[Ρ
AÁ	Sŝ	Dŏ	F	G ^G	н	J	K	L	Ĺ)
I	ZŻ	X	Cç	V	в	NÑ	M		×
\leftarrow		123							3

You only need to enter a few letters to get a result. The most likely result appears below the input field as you enter new letters.

a. If the new search area is in a different country or state, start entering the country/state and the town.



to see the whole list of the matching results.

5. With the proper search area displayed, start entering the name, address, or category of the destination you are looking for.

A Sea	arch in	All					X 7:3	18 am
Q Pi			Ø		🕒 Un	ited St	ates, I	New
			A	JI				
	laze F	oizza t » Fast	Food » E	Blaze Piz	za			
q v	/ 6	e 1	r (t ¹ J	/ 1	u° i		o° p
a ª	s ^ś	d ď	f	g °	h	j	k ^k	
Ŷ	ZŻ	x	c °	v	b	n "	m	×
\leftarrow		123		Spac	e			



- 6. Tap to switch to the result screen. You can see all the results in the list, regardless of their type. Addresses, Places, Place categories, Saved locations, and recent destinations are mixed in one list. You can immediately select the result you want to use as your destination or narrow the list of results for only one type (for example, Places).
 - Search in All
 Pi
 Diada States, New...
 Al
 Blaze Pizza Restauzart - Fast Food - Blaze Pizza
 California Pizza Kitchen Restauzart - Pizza - California Pizza Kitchen
 California Pizza California Pizza
 California Pizza California Pizza
 Cisi S Pizza Restauzart - Blazbecue Pit Iestauzart - Blazbecue Pit
- 7. If necessary, tap
 All 5 on the right side of the list and then tap the corresponding button to narrow the list of search results by type (the number on the related icon shows the number of the matching results):

 - Tap to see the list of recent destinations with a matching name or address.
 - Tap to see the list of your saved locations with a matching name.
 - Tap **The to see the list of matching addresses**.
 - Tap to see the list of matching Place category names. Scroll the list and select one of the categories. You get the list of Places in that category ordered by their distance from your current position.
 - Tap to see the list of matching Places ordered by their distance from your current location.
 - (optional) If your product contains Places from different data providers, you can further narrow the list by showing the results from one provider only. Look for the provider logos. Tap one of them to see Places from that provider.

To search for an intersection in the combined search, enter the names of the streets connected by the '&' sign. You do not need to use spaces before and after the separator character. For example you can find the intersection of Collins Street and Douglas Avenue

- Tip! by entering strings, like "Collins St & Douglas Ave", "Collins & Douglas", "Col&Doug", etc. The more precise the input string is, the fewer false results are expected. If you enter "Collins St&", you get all the intersections of Collins Street and you can select the appropriate one from the result list.
- 8. Once the destination is selected, a full screen map appears with the selected point in the middle. If

necessary, tap the map somewhere else to modify the destination. The cursor () appears in the new location.

9. Check the settings for road types and change them if necessary.



Select as Destination to confirm the destination, or tap to select a different destination.

11. The route is calculated and the map appears showing the entire route, where you can check route

information and route alternatives. Tap **second** to modify the route parameters, or tap

Start Navigation

10.

Тар

to start your journey.



3.1.2 Selecting an address

If you know at least a part of the address, this is the quickest way to select your destination. Using the same screen, you can find an address by entering the following information:

- The exact address, including the house number, see page 27
- The address starting with the street name, see page 30
- The center of a town, see page 32
- The midpoint of a street, see page 33
- An intersection, see page 34
- Any of the above, starting the search with the ZIP code, see page 35.

3.1.2.1 Entering an address with states

To enter an address as the destination, follow these steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.



country. Tap

Со

3. By default, the Alpine navigation proposes the country and state where you are or in case there is no valid GPS position, the country and state of the last known position. If needed, change the

	ess	
State/Province		
United State	es, Texas	
City or ZIP code		
City or ZIP c	ode	
Street		
Street name		

a. In the Select Country screen, you can immediately select a country from the list below the

input field or tap the ______ button and start entering the first few letters of the country on the keyboard. If you select a country without a state, you can search for a town in all its states.



- 4. If needed, select a new city.
 - a. Tap the City or ZIP code field.
 - b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.

~	Select City or ZIP Code	×	7:39am	Ŷ
Q	13			\otimes
13C Aubu	21, NY m; Aurelius, Fleming, Moravia; Niles; Owasco, Sennett;			'
13C Aubu	022, NY m; Aurelius			
13C Auro	126, NY ra (Cayuga), Genoa; King Ferry; Ledyard; Poplar Ridge; Sci			▼
130	27, NY			
\leftarrow	Ville, Clay, Ira, Lysander, Memphis, Van Buren		- 1	

- c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.
- d. To open this list, tap

and select the city.

A Select City or ZIP Code	X 7:39	Select City or ZIP Code	🗴 7:39 am
Q Ne	\otimes	Q Ne	8
New York New York, United States	1	New York New York, United States	'
New York City Matra		New York City Metro New York, United States	
		Cove Neck New York, United States	
		Great Neck	
← 123 Space		Hock Estatos	~

- 5. Enter the street name.
 - a. Tap the Street field.
 - b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



- c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.
- d. Tap

to open the list of results. Select the street from the list.

Select Street	🗴 7:40	Select Street	🗴 7:40 .m 🧼
Q Fe	\otimes	Q Fe	\otimes
Dante Ferrari Way New York/New York City Metro/Staten Island, 10304/10305	'	Dante Ferrari Way New York/New York City Metro/Staten Island, 10304/10305	'
Ellis Joland Ny Eng e [®] r ² y ⁹ b ¹		Ellis Island-Ny Fry Manhattan/New York/New York City Metro, 10280	
		Fearn PI Bronx/New York/New York City Metro, 10465	-
1 Z X 6 V 6 (n *		Featherbed Ln	
← 123 Space €			~

6. A full screen map appears with the selected point in the middle. If necessary, tap the map

somewhere else to modify the destination. The cursor () appears at the new location.

7. Check the settings for road types and change them if necessary.



Select as Destination

8.

Tap

to confirm the destination. You can also select a nearby point on the map

or tap to select a different destination.

9. The route is calculated and the map appears showing the entire route, where you can check route



3.1.2.2 Entering an address starting with the street name

After you have selected the country and state, you can leave the city or ZIP code field empty and start the search with the street name. This way you can search in all streets of a state. If you select the country without a state, this function cannot work.

1. Tap and the *Navigation view* to access the *Navigation menu*.



2.

- 3. By default, Alpine navigation proposes the country and state where you are. If needed, change the Country country. Tap
 - a. In the Select Country screen, you can immediately select a country from the list below the

input field or tap the ______ button and start entering the first few letters of the country on the keyboard.



to open the list of results and select one country from the list.

- 4. If needed, select a new city.
 - a. Tap the City or ZIP code field.
 - b. (optional) In the Select City or ZIP code screen, you can immediately select a city from the list of suggestions.



c. Otherwise, start entering the first few letters of the city on the keyboard. The names that match the string appear in a list.



- 5. Enter the street name.
 - a. Tap the Street field.
 - b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.

A Sele	ect Street	* 7	7:05 pm
Q Stre	et name		
	Street History		
Avenue 75019 19e	du Nouveau Conservatoire		
	Suggestions		
Allée Ar 75013 13e	thur Rimbaud Arrondissement (Paris)		₹
Allée Ri	mski Korsakov Arrondissement		
\leftarrow	l'Abbé Guillaume-Thomas Ba	unal	~

- c. Otherwise, start entering the street name on the keyboard, the names that match the string appear in a list.
- d. Tap

to open the list of results. Select the street from the list.

Select Street	🗴 7:40.m 🧼	Select Street	🗴 7:40 an
Q Fe	\otimes (🔾 Fe	\otimes
Dante Ferrari Way New York/New York City Metro/Staten Island, 10304/10305	5 Da	ante <mark>Ferrari Way</mark> w York/New York City Metro/Staten Island, 10304/10305	'
e r'y	i 1 col col Ma	lis Island-Ny Fry anhattan/New York/New York City Metro, 10280	
	Fe Fe	earn PI onx/New York/New York City Metro, 10465	₹
1 Z X 6 V 6 n) m 💉	eatherbed Ln	
← 123 Space (W York/New York City Metro, 10452	-

6. A full screen map appears with the selected point in the middle. If necessary, tap the map somewhere else to modify the destination. The cursor () appears at the new location.

7. Check the settings for road types and change them if necessary.



8. Tap Select as Destination to confirm the destination. You can also select a nearby point on the map

or tap to select a different destination.

9. The route is calculated and the map appears showing the entire route, where you can check route

information and route alternatives. Tap **second** to modify the route parameters, or tap

Start Navigation to start your journey.



3.1.2.3 Selecting a town center

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



, and modify the country and state as described earlier (page 27), if

necessary.

1.

- 2. If necessary, select a new town by performing the following steps:
 - a. Tap the Town or ZIP code field.
 - b. (optional) On the Town or ZIP code screen, you can select a town from the list of suggestions.



c. Otherwise, start entering the first few letters of the town. The names that match the string appear in a list.





This way the center of the displayed town becomes the destination of

3.1.2.4 Selecting the midpoint of a street

To navigate to the midpoint of a street without entering the house number, perform the following steps:



1.

, and select the country and town as described earlier. The Select Street

- 2. Enter the street name by performing the following steps:
 - a. Tap the Street name field.
 - b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



c. Otherwise, start entering the street name on the keyboard. The names that match the string appear in a list.

d. Tap

to open the list of results. Select the street from the list.

Select Street	🗴 7:40	Select Street	C 7:40	P
Q Fe	8	Q Fe		\otimes
Dante Ferrari Way New York/New York City Metro/Staten Island, 10304/10305	' .	Dante Ferrari Way New York/New York City Metro/Staten Island, 10304/10305	ľ	
Ellia Jaland Ny Eng e [®] r ⁴ y ⁹ i		Ellis Island-Ny Fry Manhattan/New York/New York City Metro, 10280		
		Fearn PI Bronx/New York/New York City Metro, 10465		▼
		Featherbed Ln		~

3. Instead of entering the house number, tap selected as the destination.

.....

Go to Street

The midpoint of the street is

3.1.2.5 Selecting an intersection in a town

To navigate to an intersection, perform the following steps:



1.

w Route, and select the country and city as described earlier.

- 2. Enter the street name by performing the following steps:
 - a. Tap the Street name field.
 - b. (optional) On the Select Street screen, you can immediately select a street from the list of suggestions.



c. Otherwise, start entering the street name on the keyboard. The names that match the string appear in a list.



to open the list of results. Select the street from the list.

▲ Select Street	× 7:40	Select Street	🗴 7:40
Q Fe	\otimes	Q Fe	\otimes
Dante Ferrari Way New York/New York City Metro/Staten Island, 10304/10305	D	Dante Ferrari Way Iew York/New York City Metro/Staten Island, 10304/1	0305
		Ellis Island-Ny Fry Aanhattan/New York/New York City Metro, 10280	
		earn PI Ironx/New York/New York City Metro, 10465	₹
	m ×	eatherbed Ln	
← 123 Space (#			

3. Tap the House number or crossing street field and browse the list of crossing streets or start entering the street name in the field. Select one from the list.

Enter House Number or Select Crossing Street X 79	41.m 🜩
A House no. (1-999) or crossing street	
Forest Rd New York/New York City Metro/Staten Island, 10304	
Hancock St New York/New York City Metro/Staten Island, 10305	
Henry PI New York/New York City Metro/Staten Island, 10305	
Hylan Blvd /New York City Metro/Staten Island, 10305	
ton St	

3.1.2.6 Using the ZIP code to select a destination

You can also select any kind of destination by entering the ZIP code instead of the city name. To select the ZIP code, perform the following steps:



- , and modify the country and state as described earlier (page 27), if
- 2. Tap the Town or ZIP code field.
- 3. Enter the ZIP code by performing the following steps:



a. Tap to open the numeric keypad.

b. Start entering the ZIP code.



necessary.

to open the list of results.

d. Find the place you need.

•	Selec	t City o	r ZIP (Code				2	x 7:37	7 .n	9	Select City or ZIP Code 🗴 7:37	9
Q	12										\otimes	Q 12	\otimes
120 Alcov	1 07 /e; Coe;	mans								'		12007 Alcove: Coeymans	
1	2	3	4	T	5	6	7	8	9		0	12008 Alplaus; Glenville (Schenectady)	
	/					Ĵ			?		Ĵ	12009 Altamont; Berne: Duanesburg: Guilderland; Knox; New Scotland; Princetown	-
Û			0	&	#			\$	e		ĸ	12010	
	<u>.</u>	ab	c		Sp	ace				÷		n; Broadalbin; Charleston (Montgomery); Charlton; Duanesburg;	

4. Continue the search as described previously (page 27).

3.1.3 Selecting a Place of Interest



menu.

You can search for Places of Interest (Places) in the

Using the same screen, you can find a Place by selecting one of the following options:

- Finding frequently searched types of Places with the Quick search categories, see page 36
- Searching for a Place by its name, see page 40
- Searching for a Place by its category, see page 38

In case of emergency, you can also find help nearby, see page 41

3.1.3.1 Using Quick search categories

The Quick search feature helps you quickly find the most frequently selected types of Places. Perform the following steps:



The following Quick search categories appear:



If there is no planned route (destination is not selected), the search is carried out around the current position. If the current position is not available either (no GPS signal), places are searched around the last known position.

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



4. The Places in the list can be ordered by their distance from the current or last known position, from

the destination, or by the length of the necessary detour. If you need to reorder the list, tap



- 5. (optional) If needed, tap
- 6. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.



7. Tap **Tap Interm** to see the details of the selected Place, or to save the location. If there is a telephone number saved for this Place, you can make a call to that number by tapping the green button at the bottom.



- 8. If necessary, tap the map somewhere else to modify the destination. The cursor () appears at the new location.
- 9. Check the settings for road types and change them if necessary.



10. Tap

Select as Destination to confirm the destination. You can also select a nearby point on the map

or tap to select a different destination.

11. The route is calculated and the map appears showing the entire route, where you can check route



3.1.3.2 Searching by category

To search for Places by their categories and subcategories, perform the following steps:





4. Select the area around which you would like to search for the Place by tapping

Around Here

available, around the last known position). In this case, the following result list is ordered by the distance from this position.

Along Route

Tap **Example 1** to search along the planned route, and not around a given point. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming gas stations or restaurants. (The result list is ordered by the length of the necessary detour.)

Around Destination

In a City

Tap **Example 1** to search for a place within a selected town. (The result list is ordered by the distance from the center of the selected town.)

		A Select Search Center	🗙 7:43 an	
		Around Here		
		✓Along Route		
		Around Destination		
		In a City		
		\leftarrow	^	
5.	(optional) If you have selected	In a City	, select the town to sea	arch in.
		Find Address	🗶 7:39 an	
		Country United States, New York		
		City or ZIP code New York		
		Street Street name		
		Co to l	2ity	

6. Select one of the main Place categories (for example, Accommodation), then browse the subcategories (for example, Hotel or Motel) to find your destination.

Search by Name or Category (16)	🗴 7:48 an
Q Search by Name	Along Route
Show All	
Accommodation	
Automotive	₹
	^

7. You can turn the Category View off at any level to list all Places around the selected location or along the route.



- 8. (optional) The Places in the list can be ordered by the following criteria:
 - Name
 - Their distance from the current or last known position
 - Their distance from the selected town
 - Their distance from the destination
 - The length of the necessary detour.



- 9. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
- 10. The process continues the same way as in case of any other search for Places. See page 36.

3.1.3.3 Searching by name

To search for a Place by name, browse the various Place categories, or use the mixture of the two search types, perform the following steps:

1. Tap and the *Navigation view* to access the *Navigation menu*.



- 3. Tap or Category to open the Search By Name or Category window.
- 4. Select the area around which you would like to search for the Place. By default, the search area is around the current position (or if it is not available, around the last known position). In this case,

the result list is ordered by the distance from this position. Tap Around Here to select one of the following search areas:

In a City

• Tap **Example 1** to search for a place within a selected town. (The result list is ordered by the distance from the center of the selected town.)

Around Destination

• Tap **Example 1** to search for a place around the destination of the planned route. (The result list is ordered by the distance from the destination.)

Along Route

Tap **Tap and the search** to search along the planned route, and not around a given position. This is useful when you search for a later stopover that results in a minimal detour only, such as searching for upcoming gas stations or restaurants. (The result list is ordered by the length of the necessary detour.)

^	Select Search Center	x	7:43	9
	Around Here			
~	Along Route			
	Around Destination			
	In a City			
\leftarrow				\sim

5. (optional) If you have selected

In a City

select the town to search in.



You can search for the name of a Place in all categories by performing the following steps:

Tap ______. Using the keyboard, start entering the name of the Place or browse in the categories.

🔺 Se	Name	6)		X 7:4	19 in 🔎			
🔍 Sea	Name		Along Route					
Show /								
QV	V E	E E F	R ^A T		۲° I	ר (י		D° P
AÁ	S ^ś	D	F	GG	Н	J	K	L
	Zź	X	CŶ	V	В	N ^Ñ	Μ	×
\leftarrow		Spac	e		€	<u></u> .		



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

^	Search by Name or Category (100)	×	7:49	9
9	Search by Name	Along	Rout	e
3	Imperial Parking Systems 55 E End Ave, New York (Manhattan), NY, 10028		1.5	
(1)	Ran Kivetz 52 E End Ave, New York (Manhattan), NY, 10028		1.5 m	
e	Pagovich Benjamin 55 East End Ave, New York (Manhattan), NY, 10	028	1.5 mi	₹
-	Pagovich Benjamin 5 East End Ave, New York (Manhattan), NY, 10	028	1.5	
\leftarrow	2 East End Av Condominium		4	~

- 3. Browse the list, if necessary, and tap the desired list item. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
- 4. The process continues the same way as in case of any other Places search. See page 36.

3.1.3.4 Finding help nearby

To quickly search for nearby assistance, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.

2.	Useful Tap	e Help Nearby		
			Help Nearby	🗴 7:49
			😫 Car Repair	
			🕂 Health	
			e Police	
			Gas Stations	
			\leftarrow	~

Places in the following pre-set search categories can be searched for around the current position (or around the last known position if the current position is not available):

•	Car Repair	: Car repair and roadside assistance services
•	Health	: Medical and emergency services
•	Police	: Police stations
•	Gas Stations	: Gas stations

3. Tap any of the quick search buttons to get an instant list of those types of Places.

^	List of Places	X 7:49	9
9	Search by Name		
	Bp 30-02 Astoria Blvd, New York, NY, 11102	0.3 mi	
•	Gulf 31-02 Astoria Blvd, New York, NY, 11102	0.3 mi	
•	Gulf 23-38 31st St, New York, NY, 11105	0.4 mi	-
	Gulf 0-75 21st St, New York, NY, 11102	0.5	
\leftarrow	Ruppeo	0	^

- 4. (optional) The Places in the list can be ordered by the following criteria:
 - By their distance from the current or last known position
 - By name.

Tap to reorder the list.

- 5. Browse the list and tap one of the list items. A full screen map appears with the selected point in the middle. The name and address of the Place is displayed at the top of the screen.
- 6. The process continues the same way as in case of any other Places search. See page 36.

3.1.4 Selecting a Saved Location

To select a location that you have already saved (page 57), perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.



2.

3. The list of saved locations is displayed. It contains two pre-set categories: Home and Work.

^	Saved Location	7:26 pm	9
Q	Search by Name		
	Home		(Â)
	Work		
€	Central Hôtel		₹
\leftarrow	Add Location		^

- 4. Tap the location that you want to set as your destination. If necessary, browse the list to see more results.
- 5. (optional) If needed, tap to enable the editing option so that you can rename the saved locations or delete any of them.
- 6. After you have selected a saved location as the destination, a full screen map appears with the selected point in the middle.
- 7. If necessary, tap the map somewhere else to modify the destination. The cursor () appears in the new location.
- 8. Check the settings for road types and change them if necessary.



Select as Destination

9.

Тар

to confirm the destination. You can also select a nearby point on the map

or tap **to** select a different destination.

10. The route is calculated and the map appears showing the entire route, where you can check route



3.1.5 Selecting a History item

The destinations that you have used earlier appear in the History list. Smart History offers these locations from your previous destinations, using parameters like the current time of day, the day of week, and the current location. The more you use the navigation software, the better it can guess your desired destination. To select a History item, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.



2. Tap New Route . Two of the Smart History Items are displayed in the New Route to... screen for easy access. You can select one of them as your destination.



- 3. To open all the history items, tap **sector**. The list of recent destinations appears. The list begins with the three most likely destinations that are selected based on your previous routes (Smart History). The rest of the destinations are ordered by the time they were last selected. If necessary, scroll the list to see earlier destinations.
- 4. Select a destination from the list.
- 5. A full screen map appears with the selected point in the middle. If necessary, tap the map

somewhere else to modify the destination. The cursor () appears at the new location.

6. Check the settings for road types and change them if necessary.



7. Tap
 Select as Destination to confirm the destination. You can also select a nearby point on the map or tap to select a different destination.

8. The route is calculated and the map appears showing the entire route, where you can check route

information and route alternatives. Tap **the second s**

Start Navigation to start your journey.



3.1.6 Selecting a saved route

The routes that you have saved earlier appear in a list. To select a previous route, perform the following steps:

1.	Tap on the Navigation	view to access the Nav i	igation menu.
2.	Tap New Route and .		
		Saved Routes	🗴 6:10 pm
		Route 001	
		Route 002	
		\leftarrow	^

3. The list of saved routes appears. If necessary, scroll the list to see earlier routes.
- 4. Select a route and the Multipoint Route screen appears. If necessary, modify the saved route. Calculate Route
- 5. The route is calculated and the map appears showing the entire route, where you can check route

information and route alternatives. Tap **second** to modify the route parameters, or tap

Start Navigation

to start your journey.



3.1.7 Entering coordinates

To select a destination by entering its coordinates, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.



2.

3. You can enter the latitude and longitude values in any of the following formats: decimal degrees,

OK

degrees and decimal minutes, or degrees, minutes and decimal seconds. Tap

A Coo	rdinates		🗴 7:26 pm	þ
N48.76	998°		Ø	
1	-1	2		
		5	6	
	7	8	9	
	S			
←		ок	^	

	(optional) If necessary, UTM format.	tap then	UTM Coordinates	and enter the coordinate in
		oordinates	🗴 7:26 pm	
∜∰ Tip!	UTM Zone 31U	Easting: Northing:	459481 🐼 5402033 🐼	
		2 3 4	5	
	6	7 8 9		
	\leftarrow	ОК	^	

4. A full screen map appears with the selected point in the middle. If necessary, tap the map

somewhere else to modify the destination. The cursor () appears at the new location.

5. Check the settings for road types and change them if necessary.



Select as Destination

to confirm the destination. You can also select a nearby point on the map

or tap to select a different destination.

7. The route is calculated and the map appears showing the entire route, where you can check route

information and route alternatives. Tap **the second second** to modify the route parameters, or tap

Start Navigation

6.

Tap

to start your journey.



3.1.8 Selecting a location on the map

To select a map location, perform the following steps:

1. Locate your destination on the map. Move and scale the map as necessary.



3.1.9 Planning a Multipoint Route

To build your route destination-by-destination, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.

Start Navigation





3. There is only one line in the list of route points, the starting point of the route, which is normally the current GPS position.



4.

8.

to select the destination.

5. The New Route to... screen appears, where you can select the destination of the route the same way as described in the previous sections.



Select as Destination

and the list returns. If

6. When the selected location appears on the map, tap needed, you can add further intermediate destinations.



7. To add more route points, tap destination or tap destination. The Add to Route... menu appears again, where you can select the new route point the same way as you have set the destination before.



(optional) Tap **to** optimise the whole route or the order of waypoints. You can also delete all the destinations.

9. When you have added all the route points, tap automatically calculated.

3.2 Checking route information and alternatives

To get a map overview of the planned route and check different parameters of the planned route, perform the following steps:



1.

Tap and the Navigation view to access the Navigation menu.



2. In the Navigation menu, tap

The planned route is displayed in its full length on the map with the following additional information:

- The total length of route
- The total time of route.

Route Info



By tapping

, you can check detailed information about the route. If you tap

All on the right side of the screen, you can narrow the route information, for example to show only freeway sections or toll roads.



By tapping

, your can see a list of route alternatives and select the most





 \wedge

3. Tap **and a constant** on the Route Summary screen to carry out additional actions, for example edit your route preferences or display the itinerary.

3.3 Editing the route

When navigation has already started, there are several ways to modify the planned route. You have the following options:

- Setting a new starting point, see page 51
- Adding an additional destination, see page 52
- Modifying the list of destinations, see page 52
- Saving the planned route, see page 53
- Deleting the planned route, see page 54
- Selecting a route alternative when planning the route, see page 54
- Selecting a route alternative for an existing route, see page 55
- Pausing guidance, see page 57.

3.3.1 Setting a new starting point

For normal navigation, all routes are calculated from the current position. You can pause navigation to check future routes, simulate them or see their length in time and distance. Then you can set the starting point of the route to a location other than the current GPS position.





2. In the Navigation menu, tap



3. The first line from the bottom is the start of the route, normally the current GPS position. Tap



Set Start Point

and confirm your action at the warning message.

	Caution: Setting a sta guida	arting point will pause ance.	
	ок	Cancel	
÷	- Calculat	e Route	

4. The Change Start to... screen appears. Select the starting point of the route the same way you select a destination.



Set Start Point

- 5. You can see the new starting point on the map. Tap and the Multipoint Route screen appears where you can continue adding a destination to your route.
- 6. Tap to continue. The route will be saved with the starting point that you have just set. You can use the saved route later to plan a route. (See page 44.)

3.3.2 Adding an additional destination

If you already have a planned route and you select a new destination as described in the above sections, the route to the previous destination is deleted and a new route is calculated.

To add a new intermediate destination to the planned route, perform one of the following actions:

• Tap the map anywhere to browse it. After selecting the location on the map, tap and select as Waypoint

other destinations of the route remain intact.

• Tap on the Navigation view and tap on page 48.



. Add a destination to your route as described

3.3.3 Modifying the list of destinations

To edit your route, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.



2. In the Navigation menu, tap



You have the following options on this screen:



Tap **to** delete all the destinations, or optimise the waypoints or the route.

- Tap the name of the intermediate destination to move it up or down in the list, to save the location, or to delete it from the list.
- If you have a route with at least one intermediate destination, you can delete the waypoint

from the list right from the Main menu. Tap

Delete Waypoint

X

, then confirm the deletion.

3.3.4 Saving the planned route

To save the planned route, perform the following steps:

1. Select a destination as described earlier and tap

Select as Destination





3. Type in a name and tap

Save Route	🗴 7:10 pm
Route 003	\otimes
q w e ^e r í	t y'u'i o'p
a s d f	g [°] h j k [°] l [′]
$\leftarrow 123$	Space
vailable in New Route	Saved Routes
Saved Routes	🗴 6:10 pm
Route 001	
Route 002	
÷	~

4. The route is saved and it is available in

By selecting a previously saved route, Alpine navigation recalculates the route using the saved destination and/or the waypoints.

3.3.5 Deleting the planned route

You have the following two options to delete the navigated route:

• If you already have a planned route and you select a new destination as described in the above sections, the route to the previous destination is automatically deleted and a new route is calculated.



• In the Navigation menu, tap determined or waypoint. If there are no waypoints, the planned route is deleted after a confirmation. If you have waypoints, you can choose to delete the whole route, or only the next waypoint.

3.3.6 Selecting a route alternative when planning the route

To select from different route alternatives or change the route planning method after you have selected a new destination, perform the following steps:

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



Alternatives

2.

3. You can see the basic details of route alternatives. Tap any of them to see it on the map.



More Results

and scroll down for other alternative routes

4. To view more suggestions, tap with different route planning methods.



3.3.7 Selecting a route alternative for an existing route

To recalculate the planned route with a different route planning method and to compare different route alternatives, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.

2. You can access the list of route alternatives from the Navigation menu in one of the following ways:



3. You can see the basic details of a few route alternatives. Tap any of them to see it on the map.



If there are suitable alternatives calculated with the route planning method that is selected in Route preferences (page 70), they are shown on top of the list. Routes with other route planning methods are shown at the bottom of the list.

4. If there are more than a few suggestions, you can tap routes.



More Results

and scroll down for

5. Select one of the route alternatives and tap Select to return to the previous screen. Alpine pavigation replaces the original route. Tap to start your journey. The

Alpine navigation replaces the original route. Tap and the start your journey. The orange line now shows the new planned route.

3.3.8 Setting a detour

- 1. Tap on the Navigation view to access the Navigation menu.
 - Detours & Alternatives
- 2. In the Navigation menu, tap

You can set up a detour for your route in the following ways:



• Tap Special Sections to open a list of special sections of the planned route such as stretches of freeway, toll road or ferry trips. Tap any of these items on the itinerary to avoid a special section.



• Tap Specific Road to open the full list of roads on the planned route. Tap any of these items on the itinerary to avoid that specific road.



• Tap Route Ahead to avoid a part of the planned route that is right ahead of you on the itinerary. You can set the distance for which you want to avoid the road ahead.



Tap Original Route to delete all detours that you have set up for the planned route,

3.3.9 Pausing guidance

When you are driving a planned route but you do not need guidance for a certain part of the route, you can suspend it and continue when it is needed again.





3.4 Saving a location

To add any location to the saved locations (the list of frequently used destinations), perform the following steps:

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

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





Save Location

3.

4. (optional) Using the keyboard, you can change the name offered for the Saved Location.

Enter Location Name	
	â
Q W E [®] R [#] T Y U [®] I O [®] P	Ο°Ρ
A ^A S ^S D ^B F G ^G H J K ^K L ^L	L
$ T = Z^2 X C^{\circ} V B N^{\hat{N}} M $	×
← 123 Space ⊕ ✓	 Image: A start of the start of



to save the location.

To add your home and work address to the saved locations, perform the following steps:



3. You can search for the address as described on page 24.

Planning a route to one of the saved locations is described on page 43.

3.4.1 Editing a saved location

To edit a location that you have already added as a Saved Location, perform the following steps:



2. The list of Saved locations is displayed.

	Saved Location × 726,
	🔾 Search by Name
	Home
	Work
	Central Hôtel
	← Add Location ^
3.	Tap and Edit
4.	Tap the location you want to edit, tap
	the keyboard, then tap
	In Saved Locations, Home and Work cannot be renamed. To change your home or work
	^{IV} Note! Iocation, tap Home or Work or change. Work
5.	Done .

Adding a location to the list of saved locations is described on page 57.

3.5 Running a Simulation

To run a simulated navigation that demonstrates the planned route, perform the following steps:

1. Tap on the *Navigation view* to access the *Navigation menu*.



2. In the Navigation menu, tap



3. Tap

4.



Simulation

Tap **Example 1** The simulation starts from the starting point of the route and leads you through the whole planned route using a realistic speed.



(optional) You have the following controls during the simulation (the control buttons disappear after a few seconds but you can open them again if you tap the map):

- Jump to the next route event (maneuver).
 - Pause the simulation.

: Jump to the previous route event (maneuver).

- Tap to increase the speed of the simulation to 4, 8 or 16 times faster. Tap again to return to normal speed.
- 5. Tap to stop the simulation.

3.6 Off-road navigation

When first started, Alpine navigation calculates routes using the road network of the maps provided with the product. If you want to disregard roads during navigation, you can switch to off-road mode, for example when driving in a desert.

3.6.1 Switching to off-road navigation

To switch to off-road navigation, perform the following steps:



Most of the procedures described for on-road navigation also apply to off-road navigation. However, there are some that are not available in this navigation mode. For example:

- You cannot open the itinerary as you have no manoeuvres just route points and straight lines between them.
- There are no route alternatives and route planning method.
- Vehicle settings are disabled.

3.6.2 Selecting the destination in off-road mode

Selecting a destination (waypoint or final destination) is the same as described in the previous sections. The only difference is that route points are linked to form a route with straight lines regardless of the road network and traffic regulations.

3.6.3 Navigating in off-road mode

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

- Your position and heading is not aligned to the nearest road.
- There is no turn-by-turn navigation, just a recommended direction.

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



When you reach the final destination, the navigation ends.

If you do not want to use off-road navigation, switch back to on-road navigation by tapping



4 Map Update

To update your navigation software and its maps, you need the following:

- Internet connection
- An empty USB storage device

To update your navigation software and its maps, perform the following steps:

- 1. Download and install the Toolbox PC tool on your PC.
 - a. Go to the alpine.naviextras.com website. If you do not have a user account yet, create one.
 - b. Click Download PC tool on the right side of the page to access the download page.
 - c. Follow the instructions on the site to download and install the Toolbox PC tool on your PC.
- 2. Collect navigation device information on a USB storage device.

[▲] Caution!	Do not switch off your navigation system during the following process Do not remove the USB storage device until the preparation process is completed.
a.	Start the navigation system while your vehicle is parked.
b.	Insert the empty USB storage device into the USB port of your navigation system.
C.	Press the navigation hardkey button, and in the Navigation Menu, tap
d.	Tap Yes on the confirmation screen. The collection of device information starts, and a progress bar shows the status of the process.
e.	Wait until you receive the following message: Operation successful. You can now connect your USB stick to your computer and purchase/download the necessary contents from www.naviextras.com using the Toolbox application. Remove the USB storage device from your navigation system.
3. Dowr	nload updates with the Toolbox PC tool.
a.	Connect the same USB storage device to your PC.
b.	Start the Toolbox PC tool on your PC and sign in with your Naviextras user name and password.
C.	Use the Toolbox PC tool to download updates and to purchase additional extras at your convenience. For instructions on using the Toolbox, see the Toolbox How-to Guides at alpine.naviextras.com/shop/portal/support.
d.	Once the download is complete, remove the USB storage device from the PC.
4. Perfo	orm the update on your navigation system.
▲ Caution!	Do not switch off your navigation system during the following process Do not remove the USB storage device until the preparation process is completed.

- a. Start the navigation system while your vehicle is parked and go to any navigation-related screen.
- b. Insert the USB storage device that now contains the updates into the USB port of your navigation system.
- c. Tap Yes on the confirmation screen. The software update starts, and a progress bar shows the status of the process.

d. Wait until you receive the following message: The software update has been successfully completed. Remove the USB storage device from your navigation system.

The navigation system will start using the updated maps next time you start the car.

^{If} Note! If you switch off the navigation system or remove the USB storage device during the update process, it will continue on next launch.

5 Reference guide

The following sections describe the different concepts and menu screens of Alpine navigation.

5.1 Concepts

The following sections describe and explain navigation-related concepts.

5.1.1 2D/3D GPS reception

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

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

5.1.2 Road safety cameras and other proximity Alert Points

There is a special proximity warning for road safety cameras (like speed or red light cameras) and other proximity Alert Points (like schools or railroad crossings). These Alert Points are preloaded in Alpine navigation.

The application can warn you when you approach road safety cameras like speed cameras or dangerous areas like school zones or railroad crossings. You can set up the different alert types individually in the Warnings settings, see page 73.

The following warning types are available:

- Audio warning: beeps are played while you are approaching one of these points, or extra alert sounds if you exceed the given speed limit while approaching.
- Visual warning: the type of the Alert Point, its distance and the related speed limit appear on the Navigation view while you are approaching one of these locations.

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

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

The warning for road safety cameras is usually disabled when you are in a country where road safety camera warnings are prohibited. Make sure that using this feature is legal in the country where you intend to operate. Use it on your own responsibility.

5.1.3 Route calculation and recalculation

A route is a sequence of route events, that is, manoeuvres (for example, turns and roundabouts) to reach the destination. The route contains one starting point and one or more destinations. The starting point is the current (or last known) position by default. If you need to see a future route, the starting point can be replaced with any other given point. See page 51.

Once the destination has been selected, Alpine navigation calculates the route based on your preferences. These preferences are the route planning method, the vehicle type, and the road types used or avoided when calculating the route. For detailed information on all the preferences, see Route preferences settings, page 70.

Alpine navigation automatically recalculates the route if you deviate from the proposed itinerary.

Intelligent data (captured historical speed information based on probe data) is used for optimal routing depending on the day of the week and time of day. Route segments where traffic flow is typically slow at the given time of day and day of the week are avoided if a suitable alternative can be found. When calculating the optimal route, the data relevant for the time of the estimated arrival of the vehicle at the given route point is taken into account. As a result, Alpine navigation may suggest a different route during the weekday rush hours, especially in major cities with frequent traffic jams. See page 1.

5.1.4 Smart Zoom

Smart Zoom provides the following features:

- While following a route: When approaching a turn, it zooms in and raises the view angle to let you easily recognise your next maneuver. If the next turn is at a distance, it zooms out and lowers the view angle to be flat so you can see the road in front of you.
- While driving without a planned route: Smart Zoom zooms in if you drive slowly and zooms out when you drive at a high speed.

5.1.5 Speed limit warning

Maps may contain information about the speed limits of the road segments. Alpine navigation is able to warn you if you exceed the current limit. This information may not be available for your region, or may not be fully correct for all roads on the map.

Speed warning can be fine-tuned in Warnings. See page 73.

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

The following warning types are available:

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



You can also choose to see the speed limit sign on the map all the time.

5.1.6 Intelligent navigation

With the help of intelligent navigation, the planned route can adapt to traffic and other changes during navigation. The following sections describe these features.

5.1.6.1 Congestion detour on highways

Alpine navigation may offer a detour when you slow down on a highway due to a traffic jam. The Potential congestion detour window appears and shows the length and duration of the detour.

By tapping the plus/minus signs, you can increase or decrease the distance to avoid on the highway.

You can accept the recommended detour by tapping

20

5.1.6.2 Real-time alternative routes

Alpine navigation may offer an alternative route on normal roads in case of a traffic jam. The possible alternative route window appears and shows the length and duration of the detour.

Avoid

* (95) NB ™ NB Cross Bronx Ex 11:47 and 350 rt Possible atternative route in 50 ft: 20 E Mt Edan Ave Length: -0.6 mil Trme: +0.01 212:58 mil Preview 211:11 Dismiss	
You can ignore this message and keep the original route by tapping	can
check the suggested route by tapping Accept	by

^	🗴 11:47 an
Length: -0.7 mi	Time: < 1 min
original route	new route
Edgewater Fairview	
← Ac	cept ^

5.1.6.3 Parking around destination

If you leave the planned route by exiting a freeway, Alpine navigation tries to guess the reason for making

a detour. By tapping **P**, you can open a top-down map with the recommended parking Places around the destination. By tapping the arrows on the sides, you can switch between the recommended parking facilities.



5.1.6.4 Hints upon detour

If you leave the planned route by exiting a freeway, Alpine navigation tries to guess the reason for making a detour. The Reason for detour window appears and shows available gas stations, restaurants or other Places around the current position. Also, if there are avoidable parts of the original route ahead (like a tunnel, a toll road or a ferry), you can find them in the list, in case you want to bypass them.



By tapping one of the Places, Alpine navigation creates a waypoint and navigates you to the selected

place. You can ignore them by tapping

Cancel

5.2 Useful Information menu



The Useful Information menu provides various additional functions. It can be found in the Navigation menu.

Button	Description
Where Am I?	Shows information on the current position (latitude, longitude, nearest town, next crossing street, and so on) or the last known position if GPS reception is not available. See page 68.
O Help Nearby	Offers assistance near your current position. See page 41.
Country Information	Offers a list of countries with useful driving information about the selected country (for example speed limits, maximum blood alcohol level).
عند Sunrise & Sunset	Shows the exact sunrise and sunset times for all your route points.
GPS Information	Shows the GPS Information screen with satellite position and signal strength information.

5.2.1 Where Am I

This screen contains information about the current position (or about the last known position if GPS reception is not available). You can access it the following two ways:

- 0 3 By going to the Navigation menu and tapping and ٠ ~ Where Am 2 Next crossing road/street: n/a € I-278, New York, 11102 N40.77479° Previous crossing road/street n/a Help Nearby ^
- By tapping the current street name if it is displayed below the current position marker on the map.



The following information is shown on the Where Am I screen:

- Address details (when available) of the current position
- Latitude and Longitude (coordinate of the current position in WGS84 format)
- The nearest town
- Next crossing road/street
- Previous crossing road/street.

You can also perform some actions on this screen.

Tap and Save Location to add the current position to the saved locations and to check the country information.



You can also search for assistance near your current position. Tap to open a new screen for quick search and select a category. For detailed information, see page 41.

5.3 Settings menu

You can configure the navigation settings, and modify the behavior of Alpine navigation, by tapping



Tap the arrows to view the content of other pages.



^BNote! Changing some of these settings may not have an effect in your current region if the map data do not contain the required information.

The Settings menu provides the following options:

Button	Function
C Route Preferences	Select the type of vehicle you are driving, the road types used in route planning, and the route planning method.
() Sound	Adjust the different sound volumes.
Warnings	Enable and set up warnings for speed limit, Alert Points (such as speed cameras), and road signs.
Navigation View	Fine-tune the appearance of the Navigation view or adjust how the software helps you navigate with different kinds of route-related information on the Navigation view.
F. Regional	Change the voice guidance language, set the time zone, the measurement units, the time and date formats, and customise the application for your local language.
Display	Enable or disable menu animations.

5.3.1 Route preferences settings

The following settings determine how routes are calculated:

Button	Function
Vehicle	Set the type of vehicle you want to use to navigate the route. Based on this setting, some of the road types can be excluded from the route, or some of the restrictions may not be taken into account in route calculation.
Route Planning Method	Optimise the route calculation for different situations and vehicle types by changing the planning method. See page 71.
Navigation Mode ^{On-road}	Select on-road or off-road navigation. See page 60.
Road types	Select your preferred road types for the route. See page 72.

Button	Description
🕞 Car	Maneuver restrictions and directional constraints are taken into account when planning a route.
	Roads are used only if access for cars is allowed.
	Private roads and resident-only roads are used only if they are inevitable to reach the destination.
	Walkways are excluded from routes.
Emergency	All manoeuvres are available in intersections.
	One-way streets are taken into account so that driving in the opposite direction is allowed at low speed.
	A private road is used only if the destination is there.
	Walkways are excluded from routes.
🛱 Taxi	Maneuver restrictions and one-way streets are taken into account when planning a route.
	Roads are used only if access for taxis is allowed.
	Private roads, resident-only roads and walkways are excluded from routes.

5.3.1.1 Route Planning Method types

You can select from the following route planning method types:

Button	Description	
Fast	Gives a quick route if you can travel at or near the speed limit on all roads. Usually, the best selection for fast and normal cars.	
Easy	Results in a route with fewer turns and no difficult manoeuvres. With this option, you can make Alpine navigation take, for example, the freeway instead of a series of smaller roads or streets.	
Short	Gives a short route to minimize the travel distance. It can be optimal for slow vehicles. Searching for a short route regardless of the speed, this route type is rarely optimal for normal vehicles.	

Green	Gives a quick but fuel-efficient route based on the fuel consumption data. Travel cost and CO_2 emission calculations are estimations only. They cannot take elevations, curves and traffic conditions into consideration.

Bonote! Depending on the vehicle type, some methods may not be available.

5.3.1.2 Navigation Mode

You can switch between on-road and off-road navigation by tapping

Navigation Mode ^{On-road}

and selecting

On-road Off-road (page 60).

5.3.1.3 Road types

To let the route fit your needs, you can also set which road types are to be considered for or to be excluded from the route.

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

The following road types are available:

Button	Description
╈ Freeways	You might need to avoid motorways when you are driving a slow car or you are towing another vehicle.
^{\$} ∕∕ Toll Roads	Charge roads are pay roads where you can purchase a pass or vignette to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.
\$ Road With Per-use Toll	Per-use toll roads are pay roads where there is a per-use charge in the routes by default. If you disable toll roads, Alpine navigation plans the best toll-free route.
Erries	Alpine navigation includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.
💼 Car Shuttle Trains	Car shuttle trains are used to transport vehicles for a relatively short distance and they usually connect places that are not easily accessible on a road, for example, in Switzerland.

🦔 Unpaved Roads	Alpine navigation excludes unpaved roads by default. Unpaved roads can be in a bad condition and you usually cannot reach the speed limit on them.	
🚨 4WD Tracks	4WD tracks are dirt roads of very poor condition. They can only be driven by 4WD vehicles. Alpine navigation Excludes 4WD tracks by default.	

5.3.2 Sound settings

You can modify the following settings:

Button	Function	
Voice guidance	Disable verbal instructions. This function is enabled by default.	
Early Indication of Maneuvers	Set whether you want an immediate announcement for the next maneuver after each turn, or it is enough to receive the information when the turn is near.	
Voice Prompts _{High}	Set the verbosity of the voice instructions, that is how much they tell and how often they speak.	
	• Low: the voice instruction is given once right before the next maneuver.	
	 Medium: the voice instruction is given when approaching the next maneuver and it is repeated right before the maneuver. 	
	 High: the voice instruction is given first relatively far from the next maneuver, it is repeated when approaching the next turn, and it is repeated again right before the actual maneuver. 	

5.3.3 Warnings settings

You can enable and modify the following settings:

Button	Description	
Speed Limit	Alpine navigation is able to warn you if you exceed the current speed limit. This information may not be available in your region, or may not be fully correct for all roads on the map.	
	This setting lets you decide whether you wish to receive visible and/or audible warnings.	
	The following warning types are available:	
	 Visual warning: the current speed limit is shown on the map when you exceed it. 	
	 Audio and Visual warning: besides the current speed limit being shown on the map, you also receive a verbal warning when you exceed the speed limit with the set percentage. 	
	If you prefer to see the speed limit sign on the map all the time (normally, it is shown only if you exceed the limit), you can set it here.	
	You can also set the relative speed above which the application initiates the warning by adjusting a slider. The value can be different within and outside towns.	
Alert Points	Tap it to receive a warning when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it.	
	You can set the warning type for the different Alert Point categories (alert types) individually. The following warning types are available:	
	 Visual warning: the type of the Alert Point, its distance, and the related speed limit appear on the Navigation view while you are approaching one of these locations. 	
	 Audio and Visual warning: besides the visual alert, beeps are played while you are approaching one of these points, or extra alert sounds if you exceed the given speed limit while approaching. 	
	For some of the Alert Points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.	
	 Only when speeding: The audio warning is only played when you exceed the given speed limit. 	
	 When approaching: The audio warning is always played when approaching one of these Alert Points. In order to draw your attention, the audio alert is different when you exceed the speed limit. 	
Road Signs	Maps may contain driver alert information that can be shown on the Navigation view in a similar way as real-life road signs. Tap it to enable or disable the warning for these road segments (for example, dangers and sharp curves). For each category of warning signs, set the warning type (visual or audio and visual) and the distance from the hazard to receive the warning at.	

5.3.4 Navigation View settings

These settings allow you to fine-tune the appearance of the Navigation view. You can also adjust how the software helps you navigate with different kinds of route-related information on the Navigation view.

Map Appearance

Tap **Tap and the set of the set o**

	Map Appearan	ce	×	7:47 in	þ
		Viewpoint _{Normal}			
		Color Mode			
		Day Map Colors			
		Night Map Colors			₹
	EDB Dr N	Landmarks	on		
\leftarrow	4			-	\sim

You can modify the following settings:

Button	Function
Viewpoint Normal	Adjust the basic zoom and tilt levels to your needs. Three levels are available.
Color Mode Auto	Switch between daytime and night color modes or let the software switch between the two modes automatically a few minutes before sunrise and a few minutes after sunset.
Day Map Color	Select the color scheme used in daytime mode. Daytime colours are bright and similar to paper road maps.
Night Map Color	Select the color scheme used in night mode. Night colours are darker to keep the average brightness of the screen low.
Landmarks	Show or hide 3D landmarks (3D representations of prominent or well-known objects).
3D terrain	Show or hide the 3D elevation of the terrain.
Place Markers	Select which Places to show on the map while navigating. Too many Places make the map crowded so it is a good idea to keep as few of them on the map as possible. Tap the name of the Place category to show/hide it or to open the list of its subcategories.

You can modify the following additional settings on the Navigation View screen:

Data Fields	If you are navigating with a planned route, you can set three data fields to be displayed on the Navigation view. You can choose from the time of arrival at destination, distance to destination, time to destination, time of arrival at waypoint, distance to waypoint, time to waypoint, heading, or altitude. Without a planned route, there is only one data field that can be set to show the heading or the altitude.
Route Progress Bar	Turn the Route Progress Bar on or off. If turned on, an orange line is displayed on the side of the screen, and a blue arrow on it shows your progress.
Show Places Around Freeway Exits	Turn it on to get freeway service information (for example gas stations, restaurants) or turn it off if you do not need it.
Services Displayed	Select the service types displayed for the freeway exits. Choose from the Places categories.
Automatic Overview	Zoom out and show an overview of the surrounding area if the next maneuver is far and you are driving on a freeway. When you get close to the event, the normal map view returns.
Signposts	Whenever adequate information is available, lane information similar to the real ones on road signs above the road is displayed at the top of the map. Tap it to turn this feature on or off.
Junction View	If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. Tap it to turn this feature on or let the map be displayed for the whole route.
Tunnel View	When entering tunnels, the surface roads and buildings can be disturbing. Tap it to show a generic picture of a tunnel instead of the map. A top-down overview of the tunnel and the remaining distance are also displayed.
Offer Real Time Alternative Routes	In certain situations, Alpine navigation offers an alternative route when there is a traffic jam on the road. See page 66.
Suggest Hints Upon Detour	In certain situations, Alpine navigation offers different route alternatives when you leave the planned route and suddenly exit the freeway. See page 67.

5.3.5 Regional settings

You can modify the following settings:

Button	Description	
Language	It displays the current written language of the user interface. Tap it to select a new language from the list of available languages. The application restarts after you change this setting and confirm it.	
Voice Language	It shows the current voice guidance profile. Tap it to select a new profile from the list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap when you have selected the new spoken language.	
Units and Formats	You can set the measurement units and time/date format to be used. Alpine navigation may not support all the listed units in some voice guidance languages.	

5.3.6 Display settings

You can modify the following settings:

Button	Function	
Menu Animation	When animation is turned on, buttons on menus and keyboard screens, and screen transitions are animated.	

6 Troubleshooting

This section offers possible solutions to issues that may occur during the operation of Alpine navigation.

6.1 GPS signal cannot be received

Issue: The current location is not available, because GPS signal cannot be received.

Cause 1: GPS signal is weak or may not be available if you are between tall buildings, in garages or tunnels as the signal weakens or distorts as it travels through solid material.

Solution 1: Go to a place where there is a clear sight of the sky or at least a bigger part of the sky is visible.

Cause 2: It may take several minutes to receive GPS signals when first using Alpine navigation, or when your last known position is farther away from your current position.

Solution 2: Wait a few minutes for the GPS signal.

6.2 Address cannot be found

Issue: Alpine navigation cannot find the address you entered.

Cause: The digital map data may not include every single address.

Solution 1: If the house number is not known or Alpine navigation cannot find it, select only the street name. This way, Alpine navigation will navigate you to the midpoint of the street, where you can find the exact address more easily.

Solution 2: Search for another address that is close to the destination.

Solution 3: Search for the coordinates or a nearby Place of Interest.

6.3 The calculated route is not optimal

Issue: The planned route is too long or includes several minor roads.



Cause: In

the route planning method is not set to the optimal parameter.

Solution: Select your preferred route planning method by performing the following steps:



2.	Route Planning Method Tap	and select your p	preferred route, for exam	Fast	or
	Easy				
	·······				
		Route Preferences	🔉 6:26 (m)		
		Vehicle _{Car}	✓ Fast		
		Route Planning Met	Easy		
		Navigation Mode	Short		
		T Motorways	Close		
		\leftarrow oll Roads	on 📃		

6.4 Disabling the speed limit warning

Issue: The speed limit warning is signalling even when the actual speed limit is kept.

Cause: The speed limit in the digital map data might differ from the actual speed limit of your current location.

Solution: Disable the speed warning by performing the following steps:



6.5 Keyboard buttons are greyed out

Issue: Some keyboard buttons are greyed out and cannot be used.

A Select	t Street			\$	< 7:40	
Q Fe						\otimes
Dante <mark>Fe</mark> New York/Ne	rrari Way w York City Meti	ro/Staten I	sland, 1030	04/10305		1
	e r		y ^ý	u i		p
aª	s d d					1
Û		G V		n "	m	×
\leftarrow	123	Sp	ace			i i i i i i i i i i i i i i i i i i i

Cause: Alpine navigation has a smart keyboard for address search, which means that only those buttons are active that can be used to type a name that is available on the map.

Solution: Check if you entered the name correctly. If the name is correct, then the address you are looking for is not available in the digital map data.

6.6 The map is hidden behind an image of a junction

Issue: The map is not visible because it is hidden behind an image of a junction.



Cause: If you are approaching a freeway exit or a complex intersection and the needed information exists, the map is replaced with a 3D view of the junction. The lanes you need to take are displayed with arrows.

Solution: If you want to hide the currently displayed junction and return to the Navigation view, tap the picture. To turn off this feature, perform the following steps:



7 Copyright note

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IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record.

ERIAL NUMBER :
O SERIAL NUMBER :
ISTALLATION DATE :
ISTALLATION TECHNICIAN :
ACE OF PUBCHASE ·

WARNING

🗥 WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

INSTALL THE PRODUCT CORRECTLY SO THAT THE DRIVER CANNOT WATCH TV/VIDEO UNLESS THE VEHICLE IS STOPPED AND THE PARKING BRAKE IS APPLIED.

It is dangerous for the driver to watch TV/Video while driving a vehicle. Installing this product incorrectly enables the driver to watch TV/Video while driving. This may cause a distraction, preventing the driver from looking ahead, thus causing an accident. The driver or other people could be severely injured.

DO NOT WATCH VIDEO WHILE DRIVING.

Watching the video may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANEUVER, OR PLACES YOU IN AN UNSAFE SITUATION OR AREA.

This product is not a substitute for your personal judgement. Any route suggestions by this system should never supersede any local traffic regulations or your personal judgement or knowledge of safe driving practice.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, shift lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.



A CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Centre for repairing.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

 The following screen examples of INE-W970HD used in this manual are for reference only. They may differ from the actual screen displays.

Getting Started

Location of Controls

The screen design used in the Owner's Manual may differ from the actual screen.

For INE-W970HD



Owner's manual

1 Constant Settings or Eject button

Displays the [Tone/Fader/Balance] settings screen. Press and hold this button to eject Disc.

2 or VOICE button

Depending on the connected smartphone, press to activate Siri function or voice recognition mode. (Only works for Apple CarPlay and Android Auto.)

3 (NAV) button

Recalls the navigation map screen.

Press again to switch to Navigation menu screen.

Press and hold this button for at least 2 seconds to change to Go Home route screen. (If Home is not set yet, it will change to the Home setting screen.)

For details of navigation operations, refer to "Navigation System OM (Owner's Manual)"

Recalls the connected smartphone's map screen.

Depending on the smartphone, this function may not be available.

④ ALL MENUS or (Power Off) button Recalls the All Menus screen.

Press and hold this button for at least 2 seconds to turn the power off.

⑤ ♪ (AUDIO) or - MUTE (MUTE) button

Displays the Audio/Visual screen. When pressed and held, mutes the volume.

6 + / - button

Press to adjust the volume.

⑦ Remote Sensor

Point the remote control transmitter towards the remote sensor within a range of 2 metres.

⑧ Disc insert slot Inserts/ejects discs

(9) RESET switch The system of this unit is reset.

Turning Power On/Off

Some of this unit's functions cannot be performed while the is vehicle is in motion. Be sure to stop your vehicle in a safe location and apply the parking brake then release and apply and keep applied before attempting these operations.



6.EN

Turn the ignition key to the ACC or ON position. The system turns on.

Press and hold the All Menus/ (Power Off) button for more than 2 seconds to turn the power off.



Getting Started

Resetting the System

Be sure to press the RESET switch when using the unit for the first time, after changing the car battery, etc.



2 Press the RESET switch with a ballpoint pen or similar pointed object.



All Menus Screen

The All Menus Screen displays all of the available modes that can be selected to operate the system.

Press the All Menus button. The All Menus Screen is displayed.



All Menus Screen example







- ① Radio button
- ② SiriusXM button
- 3 DISC button
- ④ Bluetooth Audio button
- (5) My Menu button
- 6 Apple CarPlay
- ⑦ Android Auto
- ⑧ Phone button
- **9 USB Music button**
- 1 USB Video button
- 1 USB Image button
- ② Camera button
- 13 HDMI
- ④ AUX button
- 15 iPod button
- 16 Setup button
- ⑦ Navigation button

Key Features

About Dual Screen

Dual Screen allows you to display the Navigation and Audio/Visual screens simultaneously.

12:00 S Bovie St 0.7m S Doterous St Colorous St Colo

Touch left side of dual screen

Navigation Full Screen



My Menu

Owner's manual

Frequently used functions such as the Audio or Navigation mode can be easily recalled by adding them to the My Menu screen. For details, see "My Menu Function"

My Menu Screen Example



- Frequently used functions and useful functions can be customized for your convenience.
- · You can register up to 8 menus.
- You cannot add the same feature more than once.

Swiping the Touch Screen

You can change a screen or a page by swiping the touchscreen vertically or horizontally with your finger. For details, see "Touch Screen Operation".

Swipe the display with your finger lightly.



Favourite Function

	Owner's manual	Android Auto			
Android Auto					
Android Auto is designed to make it easier to use apps from your phone while you're on the road. Navigate with Google Maps, listen to playlists or podcasts from your favorite apps, and more. Download the Android Auto App from the Google Play store before continuing. Connect your Android compatible Phone to begin using Android Auto.					
Press the All Menus is button. The All Menus screen is displayed.					
 2 Touch [Android Auto]. The Android Auto screen is displayed. For details operation of Android Auto, refer to "Android Auto" in the Owner's Manual. 					
Owner's manual Apple CarPlay					
Apple CarPlay					

Apple CarPlay is a smarter, safer way to use your iPhone in the car. Apple CarPlay takes things you want to do with your iPhone while driving and puts them right on this unit. You can get directions, make calls, send and receive messages, and listen to music, all in a way that allows you to stay focused on the road. Just plug in your iPhone to this unit and go. For details, refer to Owner's Manual.

Press $\frac{1}{2}$ or VOICE to activate Siri function of the iPhone. You can make a call, play music, etc., by using Siri function of the iPhone. You can also control Apple CarPlay on touchscreen.

Radio/HD Radio[™]/SiriusXM

The unit can receive HD Radio signals based on digital radio broadcast standards, in addition to analog radio broadcasts using RBDS. HD Radio signals are broadcasted in the service areas of the current AM/FM broadcasters where they provide digital audio distribution and data services. This unit receives the above digital broadcasts for your high-quality sound enjoyment. Depending on the signal strength in TUNER mode, the unit will automatically switch between digital signals if they can be received, and analog radio using RBDS if digital signals cannot be received. For details, please see "HD Radio On/Off".

· RBDS mode is only available during FM broadcast reception.



① Radio Band Tab

If you select the desired tab, the selected Radio mode will operate.

② Menu (Sound Settings)

③ Displays the Previous Screen

④ Album Art

Image priority : 1st Album Art, 2nd Channel image, 3rd Default image

⑤ Information Display

Displays information such as frequency, station name, preset number, live mode, HD radio channel, song title, artist name and album title

6 Decreases Frequency

⑦ Displays the preset screen

⑧ Changes Tuning Mode

Switches the tuning mode used to search radio Broadcasts between Manual Tune, Preset, or DX Seek.

- 9 Displays the list screen
- 10 HD Radio
- 1 Increases Frequency

SiriusXM Radio Main Screen



1 Menu

2 Displays the Previous Screen

3 Album Art

Displays the image that represents the currently received station When album art is not available, the channel logo or the SiriusXM logo will be displayed.

④ Indicators

Satellite Antenna, Preset Number, 🔺 Fav, Live

⑤ Information Display

Displays information such as channel name, channel number, category/artist/title/content info.

- 6 Channel Tune Down
- ⑦ Channel Tune Up
- ⑧ Time Difference

Displays the time difference between the live broadcast time and actual playing time.

④ Control Panel

Enables use of Skip Backward (by segment) / Skip Forward (by segment) Play/Pause/Rewind/Fast-forward features.

- 1 Changes to the program currently being broadcast.
- 1 Displays the preset screen
- 12 Displays the list screen
- 1 Direct Tune
- (Alert

10-EN

Owner's manual

Radio/HD Radio

USB Flash drive Operation

You can play back music files (MP3/WMA/AAC/FLAC/OGG/APE/MP2) and video files (AVI/MKV/MP4/ASF/WMV/MPG/3GP/MOV/FLV) stored in a USB flash drive on the internal player of this system.

USB Music main screen example



- ① Displays the list screen
- 2 Menu (Add to Playlist, Sound Settings)
- **③ Displays the Previous Screen**
- ④ Artwork Display
- ⑤ Current Song no./Total Song no.
- 6 Information Display
- ⑦ Play Time and Play Bar
- ⑧ Previous File
- 9 Play/Pause
- 1 Repeat
- 1 Shuffle
- 12 Scan
- (3) Next File

Playing USB Music Files



Owner's manual

Press the All Menus H button → touch [USB Music]. Or in the Home screen, touch [All Menus] \rightarrow [USB Music].

USB Flash drive Operation



Touch $| \bullet \bullet \bullet \bullet \bullet \bullet |$ and select the desired file. If play time is over 3 seconds, pressing | < will play the current file from the beginning.



Touch ▶ to play USB music. While playing, touch II to pause USB music.

Searching USB Music Files

You can search the music file in the List screen.



▲	3:02 pm = ♠
File	🗈 Music
Plavlist	🙀 2.mp3
	⊿ 3.mp3
	⊿ 4.mp3
	⊿ 5.mp3
	. 6.mp3



Search the desired category and file. It is possible to search by File, Playlist.



Touch the desired file to play.

· In the List screen, it is possible to add current song to playlist by touching $\equiv \rightarrow$ [Add to Playlist].

Owner's manual Disc **DISC-DVD**

6



- 3 Displays the Previous Screen
- **④** Chapter and Title Information
- **⑤** Chapter and Title Index
- 6 Play Time and Play Bar
- ⑦ Previous Chapter
- 8 Play/Pause
- 9 Repeat
- 1 Search

- (1) Screen ration (16:9/4:3 LB/4:4 PS)
- 1 Next Chapter

Playing a DVD

Press the All Menus 🚹 button → touch [Disc Video]. Or in the Home screen, touch [All Menus] \rightarrow [DISC].

Touch Idd or Idd or Idd or select the desired Chapter.

Touch ▶ to play a DVD.

While playing, touch II to pause a DVD. To enable DVD playback apply the parking brake then release and apply and keep applied.

Viewing in Full Screen

Touch the screen in a non-menu area to view the DVD in full screen.

If you want to display the menu, touch the screen.

· If there are no operations for 10 seconds, the menu will automatically disappear.

Searching Chapters







Search the desired chapter.

Touch the desired chapter to play.

Searching from Top Menu

Touch MENU to display Top Menu screen.





Search the desired chapter and title.

Touch the controller up/down/left/right directions to select the desired menu and touch Enter or .

· The Top menu and DVD menu options can only be used within DVDs that support these features.



iPod Music

A separately sold Lightning to USB cable (KCU-471i), etc., is required depending on the type of iPod/iPhone.

iPod Music Main Screen



- ① Displays the list screen
- 2 Menu
- **③ Displays the Previous Screen**
- ④ Artwork Display
- 5 Current Song no./Total Song no.
- **6** Information Display
- ⑦ Play Time and Play Bar
- ⑧ Previous File
- 9 Play/Pause
- 1 Repeat
- 1 Shuffle
- 12 Next File

Playing iPod Music

- Press the All Menus button → touch [iPod Music]. Or in the Home screen, touch [All Menus] → [iPod Music].
- 2 Touch I or >> I and select the desired file. If play time is over 3 seconds, pressing I of will play the current file from the beginning.

Touch ▶ to play iPod music.

While playing, touch III to pause iPod music.

The feature may operate differently depending on the iPod specification.

Searching iPod Music Files

You can search the files in the List screen.

Touch **Q** to display iPod Music list screen.

Owner's manual

A list	12:00
Playlist	in Song
Artist	n music1
Album	music2
	r music3
Song	n music4
Others	r music5

iPod/iPhone



Search the desired category and file.

It is possible to search by Playlist, Artist Album, song and others.



Touch the desired file to play.

	Owner's manual	Bluetooth Audio
Bluetooth Audio		

Music saved in the mobile phone, portable player, etc. can be played in the car through Bluetooth audio streaming.

- Bluetooth audio can be played only when a Bluetooth phone or Bluetooth audio device has been connected. To play Bluetooth audio, connect the Bluetooth phone to the car system. For more information on connecting Bluetooth, please refer to the user's manual [Pairing and connecting the unit and a Bluetooth phone].
- · The feature may operate differently depending on the Bluetooth device.



Bluetooth Audio Main Screen

① Menu

- 2 Displays the Previous Screen
- ③ Bluetooth Icon
- ④ Information Display
- (5) Play Time and Play Bar
- **6** Previous File
- ⑦ Play/Pause
- 8 Repeat
- 9 Shuffle
- 10 Next File

Playing Bluetooth Audio

Press all menus button \rightarrow touch [Bluetooth Audio] Or in the Home screen, touch [All Menus] \rightarrow [Bluetooth Audio].



5 5

- Touch ► II to play Bluetooth Audio. While playing, touch ► II to pause Bluetooth Audio.
- The title/artist info may not be supported in some devices. When it
 is not supported, only the symbol will be displayed.
- The play/pause feature may operate differently depending on the device.

Fast-forwarding or Rewinding File

Using or .



While playing, touch and hold | << or >> | .

Touch and hold for more than 1 second to rewind or fastforward at 4x speed. Keep touching to switch the speed to 20x.



Release det or >>> to play the track at normal Z speed.

Repeat

Touch 📿 .

Each time the button is touched, the mode is changed.

Select the desired mode. 4

 One File *i* : repeats play of currently playing file. On O : repeats all the files in the Bluetooth Audio.
Off : turns the Repeat feature off.

Shuffle

Touch 🔀 .

Each time the button is touched, the mode is changed.

Select the desired mode. Ľ

On X : plays files in the current category in random order.
Off 💢 : turns the shuffle feature off.

Sound Settings

Touch $\blacksquare \rightarrow$ [Sound Settings].

Map Functions

Below is an overview of different buttons and icons on the map display. For more detailed information about this screen, please see the Owner's Manual.





- ① Next street
- ② Next turn preview
- ③ Speed limit warning
- ④ Data fields
- (5) Lane information
- 6 Motorway services
- ⑦ Destination Menu
- ⑧ Sound settings
- ④ Access to Main Menu

① Warning road sign

② Street name



Navigation Menu

To access the Navigation Menu, touch on the icon on the right lower corner of the map screen.



① Access the Map

Click on the arrow

② New Route

Select your destination by entering an address or its coordinate, or by selecting a Place, a Saved Location, or a Saved Route. You can also look up your recent destinations from the History.

③ Multipoint Route

Build your route from one or more route points. You can also plan a route independently of your current GPS position by setting a new starting point.

④ Useful Information

Access additional options and check navigation-related information.

5 Settings

Customize the way the navigation works

6 Next Menu



① Update

Enable Map updates for users

② About

Version Information, Contents, Legal, credits and etc.

③ Favorites

Saved favorite locations

④ Volume

Change the volume settings to Alerts Only/Muted/Volume On

(5) View

Change the views to 2D/2DNorth-Up/3D

6 User Profiles

New user profiles can be added and customized

Setting a Destination

The following example describes how to search for a destination when choosing [City or ZIP code] from [Address]. • You can search and narrow down the Country/State by starting from [Country/State].





Touch [City or ZIP code].



Enter the City or ZIP code.

Touch with to display the candidate list.



Enter the desired street name.

A Sel	ect Stre	et					X 12	:00	9
Q Street name									
			Sugge	stions					
10th Ave San Francisco/San Francisco Bay Area, 94116/94118/94122									
QW	/ E	ÊF	R ⁴ 1	Γ [†] ι	ſι	ا (ر)°[Ρ
AÂ	S [®]	D	F	G	Н	J	K 8	L	Ĺ.
I	Z²	X	C¢	V	В	N ^Ñ	М	E	×
←		123							:

Touch with to display the candidate list.



Enter the house number or crossing street.



7 Select your destination



Confirm the location of your destination or click
for more detailed information



Route Summary



The route is calculated, and a map appears, showing the entire route. Here you can check route information and route alternatives



Touch to modify the route parametres, or touch [Start Navigation] to start your journey.

Specifications

MONITOR SECTION

Screen Size LCD Type Operation System Number of Picture Elements

Effective Number of Picture Elements Illumination System

FM TUNER SECTION

Tuning Range Mono Usable Sensitivity 50 dB Quieting Sensitivity Alternate Channel Selectivity Signal-to-Noise Ratio Stereo Separation

AM TUNER SECTION

Tuning Range Usable Sensitivity

USB SECTION

USB Class

File System

USB 2.0 USB requirements 1,500 mA (CDP Support) Max. Power Consumption USB (Mass Storage Class) FAT16/32 MP3/WMA/AAC/FLAC/OGG/APE/MP2 Decoding Format Number of Channels 2-Channels (Stereo) Frequency Response*1 5 - 20,000 Hz (±1 dB) Total Harmonic Distortion 0.016% (at 1 kHz) Dynamic Range 95 dB (at 1 kHz) Signal-to-Noise Ratio 85 Db Channel Separation 75 dB (at 1 kHz)

6.5" (INE-W970HD)

TFT active matrix

(RGB))

LED

80 dB

65 dB

35 dB

99% or more

877 - 1079 MHz

530 – 1,710 kHz

25.1 µV/28 dBf

9.3 dBf (0.8 µV/75 ohms)

13.5 dBf (1.3 µV/75 ohms)

Transparent type TN LCD

1,152,000 pcs. (800 × 480 × 3

*1 Frequency response may differ depending on the encoder software/bit rate.

HDMI SECTION

Input Format

480p/720p

GPS SECTION

GPS Reception frequency GPS Reception sensitivity 1.575.42 +1 MHz -130 dBm max.

Owner's manual

Specifications

Bluetooth SECTION

Bluetooth Specification Frequency band Output Power Profile

Bluetooth V4.0 2,402 - 2,480 MHz '-6~+4 dBm Ave. (Power class 2) HFP (Hands-Free Profile) PBAP (Phone Book Access Profile) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile)

4V/10k ohms (max.)

4V/10k ohms (max.)

2.05kg

178 mm

100 mm

142 mm

GENERAL

14.4 V DC Power Requirement (11-16 V allowable) Operating temperature -4°F to +140°F (-20°C to + 60°C) Power Output 16 W RMS × 4*2 Power output: measured at 4 Ohms and < 1% THD+N S/N: 80 dBA (reference: 1 W into 4 Ohms)

Audio output level Preout (Front, Rear): Preout (Subwoofer): Weight (unit only)

CHASSIS SIZE

Width Height Depth

NOSE SIZE (FACE PLATE W/O)

Width	178 mm
Height	100 mm
Depth	21.3 mm

19-EN

2019-10-27 오후 9:33:42

DISC AUDIO SECTION

File Format MP3, WMA7, WMA8, WMA9 Extensions mp3, wma Bit rate 16kbps ~ 320 kbps Sampling Rate 8K~ 48 KHz Frequency response (20Hz ~ 20KHz) 0+1dB Signal to Noise radio ≥ 85dB THD (Total harmonic distortion) ≤ 0.06% Dynamic Range (1kHz) ≥ 80dB R/L Cross sound ≥ 75dB

DISC IMAGE SECTION

File Format	JPEG, PNG, GIF, BMP
Extensions	JPEG, PNG, GIF, BMP

DISC VIDEO SECTION

File Format	AVI, MPG, FLV, DAT, VOB, MP4, MOV, OGG, ASF
Extensions	avi, mpg, mpeg,dat, flv, vob, mp4, mov, ogg, asf
Video Codec	MP4V, MPEG-1, MSVC, MPEG-1/MPEG-2, H.263,
Video	720*480/576 (30fps)
Resolution	Response Sampling Rate : 8,11.025, 16,22.05, 24, 32, 44.1, 48 KHz Response Bitrate : 45~500Kbps. (WMA : 8K~48KHz, 16kbps~320kbps)
Audio Codec	Dolby Digital(AC3),WMA/PCM/LPCM,AAC LC (2ch),MPEG- Audio,(MP1/MP2/MP3) LPCM, uLaw/aLaw, OGG, WMA
Subtitles	SMI
Unsupported files	Video with OGG Audio formats other than Vorbis with OGG Vorbis format in AVI

CVBS	
Video Signal Level	0.7±0.1 V p-p
Sync Level	0.3±0.1 V p-p
Video Out Level	1.0±0.1 V p-p
S-VIDEO Level	
Y	1.0±0.1
с	0.3+0.1

- Due to continuous product improvement, specifications and design are subject to change without notice.
- The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.

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- "Made for iPod," and "Made for iPhone," mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.
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