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ALPINE INE-AW409S
Intelligent Vehicle
Mounted
Networking System

ALPINE INE-AW409S Intelligent Vehicle Mounted Networking System User Guide

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ALPINE INE-AW409S Intelligent Vehicle Mounted Networking System

Product Information

Specifications

- Product Name: Alpine Vehicle-mounted Networking System
- Power Requirement: 12V negative ground
- Installation: Professional installation recommended
- Cleaning: Use a dry, soft cloth or water for cleaning
- Disposal: Dispose of electronic products through proper recycling channels

Product Usage Instructions

Operating Instructions
Ensure the vehicle is equipped with a 12V negative ground before installation.

Precautions

- Avoid distractions while driving; use functions only when the vehicle is stopped.
- Maintain volume at a level where external vehicle noises are audible.
- Avoid installation in direct sunlight, high-humidity areas, dusty environments, or places with severe vibrations.

Cleaning and Maintenance
Clean the product regularly with a dry, soft cloth. For tough dirt, dampen the cloth with water. Do not use other solvents. Contact an authorized dealer for maintenance.

Installation Tools

- Panel removal tools
- Socket
- Electric drill
- Phillips screwdriver
- Cross screwdriver socket spanner

- Spanner
- Wire cutter
- Cable clamp
- Wire stripper
- Multimeter
- Oscilloscope

Frequently Asked Questions (FAQ)

- **Q: Can I install this product in any vehicle?**

  A: This product is suitable for vehicles with a 12V negative ground. Ensure compatibility before installation.
- **Q: How should I clean the product?**

  A: Use a dry, soft cloth for regular cleaning. For tough dirt, dampen the cloth with water. Avoid using other solvents.
- **Q: What should I do if I encounter problems with the product?**

  A: Do not attempt to repair it yourself. Return the product to an authorized Alpine dealer or service center for repair.

| HD Display | Online Navigation | Alpine Music | Support WiFi | Mobile Link | Two USB |

Please read this Quick Start Guide before using the product. iPhone users please search for Alpine Music in the App Store and download and install it; Android users can scan the QR code on the right to download and install directly.

Alpine Music

Operating instructions

Types of precautions

🚫 Required	Actions Prohibited (Must not be carried out)
🚫 Prohibited	Indicates prohibition of disassembly.
❗ Required	Indicates mandatory operations.
⚠️	Indicates that significant Attention Required.

- Stop using immediately if any problems occur Failure to do so may result in personal injury or damage to the product. Please return the product to an authorized Alpine dealer or nearby Alpine service center for repair.

- This product is only suitable for vehicles with a 12V negative ground Otherwise, accidents such as fires may occur.

- Professional wiring and installation are required. The wiring and installation of this product require professional skills and experience. For safety reasons, please contact the dealer where you purchased the product for installation.

- Do not disassemble or modify Otherwise, accidents, disasters, or electric shock may occur.

- Bolts or screws and other small objects should be kept out of reach of children Swallowing small objects may cause serious injury. If swallowed accidentally, seek medical attention immediately.

- Do not use any functions that may distract you while driving.
  Any function that distracts your attention should only be used after the vehicle is completely stopped. If you need to use these functions, park the vehicle in a safe area first. Otherwise, accidents may occur.

- The volume must be kept at a level where external vehicle noises can still be heard while driving. It is very dangerous not to hear emergency vehicle alarms and road warning signals (such as train crossings), which may lead to accidents. In addition, excessive volume may also cause hearing damage.

- **Product cleaning**
  Please use a dry, soft cloth to regularly clean this product. If dirt is difficult to remove, only use water to dampen the soft cloth. Any other solvent may dissolve it.

- **Temperature**
  Before turning on this device, make sure the temperature inside the vehicle is between +60°C and20°C.

- **Maintenance**
  If you encounter any problems, do not attempt to repair it yourself. Please return the product to an authorized Alpine dealer or nearby Alpine service center for repair.
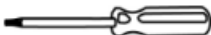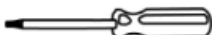
- **Installation location**
  This device cannot be installed in any of the following locations:
  - Near direct sunlight and heat sources
  - Near high humidity areas and water sources
  - In dusty environments
  - In places with severe vibrations

Tools that may be required
(depending on the vehicle)

Panel removal tools	Socket	Electric drill	Phillips screwdriver
Cross screwdriver	socket spanner	Spanner	Wire cutter
cable clamp	Wire stripper	Multimeter	Oscilloscope

Spare Parts list

- Intelligent Vehicle-mounted Networking System x1
- Wire kit x1

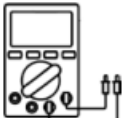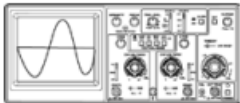*Disposal of electronic products should take place through appropriate recycling channels in order to reduce e-waste pollution.

General operation of the status bar

Common shortcut keys

1. Home button [🏠]: In non-main interface, click the home button icon to return to the main interface.
2. Back button [↩]: In non-main interface, click the back button icon to return to the previous interface.
3. Task button [▭]: Click the task button icon to view the recently opened and running programs in the background.

Drop-down menu

Click on this icon in the status bar [⬇], or swipe down from the top edge with your finger to trigger the dropdown menu interface.
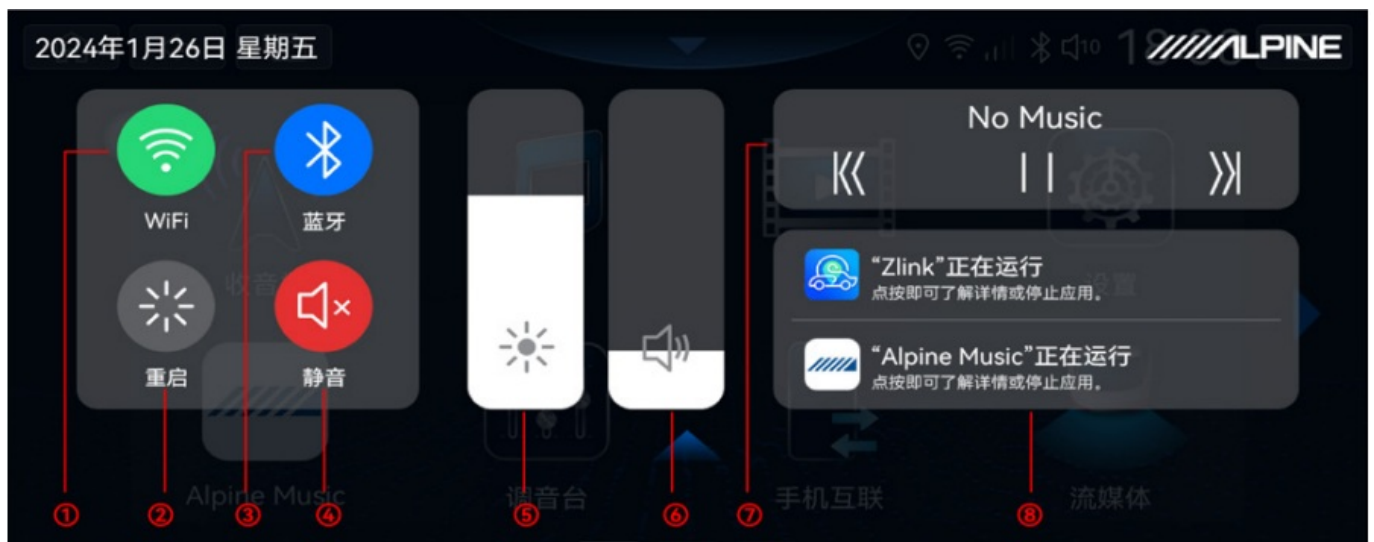
1. "WLAN" icon: Click to turn WLAN on/off, long press to enter WLAN settings.

2. "Bluetooth" icon: Click to turn Bluetooth on/off, long press to enter Bluetooth settings.

3. "Restart" icon: Click to restart the machine.

4. "Mute" icon: Click to mute.

5. Brightness bar: Slide up and down to adjust screen brightness.

6. Volume bar: Slide up and down to adjust media volume.

7. Music card: Displays currently playing music.

8. Information bar: Displays information prompts.

Status display

The icon on the right side of the status bar [] displays the time, WLAN, location, Bluetooth, USB, and other statuses.

Introduction to main interface functions

Main interface and application interface

1. After the machine starts up, it defaults to the main menu page, which mainly displays shortcuts to commonly used functions. Users can also adjust the layout of this page according to their preferences. Click the "Mode Switch" icon to enter the large icon mode. This device has multiple screens, which can be swiped left or right or clicked on the arrow icon [] to switch interfaces.
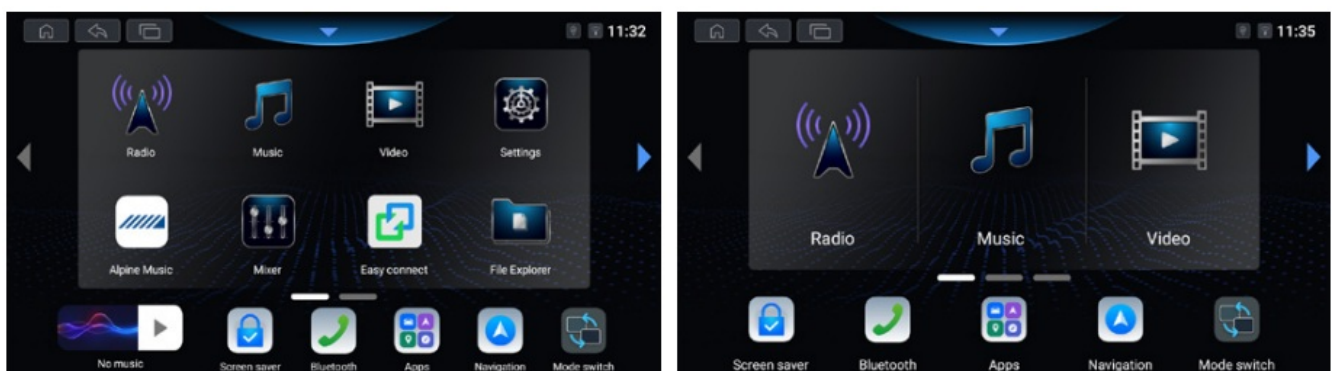
2. Music Card: Located at the bottom left corner of the main interface. When there is no music playing, click to enter the music interface; when there is music playing, click the pause icon [] to pause the music playback,

click the image to enter the music interface.

3. Click the "App Center" icon on the main interface to enter the full application interface.
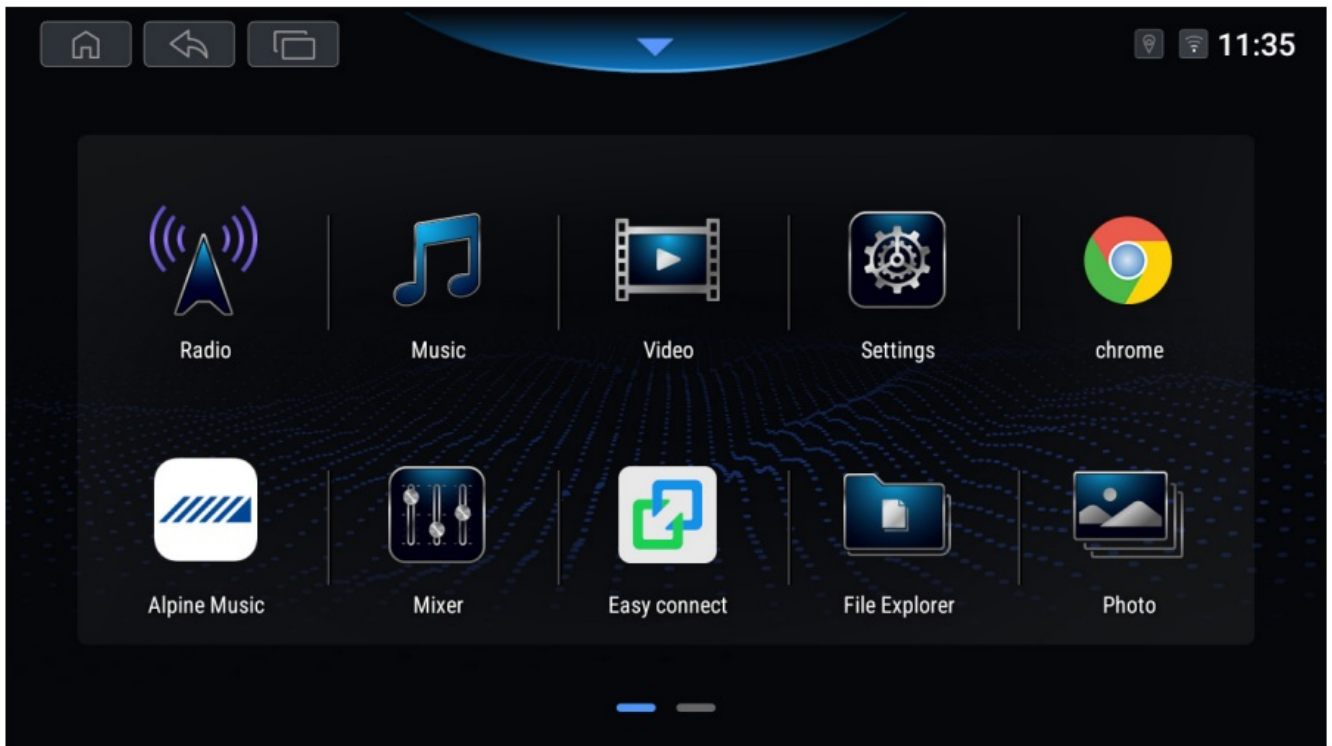
Introduction of main functions

Radio
Click the "Radio" icon to enter the radio interface.

- ① Stored station list.

- ② RDS function.

- ③ Band: Click to pull down and select from FM1/FM2/FM3/AM1, which offers 5 band options, defaulting to FM1.

- ④ RDS station name, if not an RDS station, it will not be displayed.
- ⑤ and ⑥ Short press: Up/down fine-tuning, FM adjusts in steps of 0.05MHz, AM adjusts in steps of 9kHz; the step value may vary depending on the region.
- Long press: Search for stations with strong signals upwards/downwards.
- ⑦ Status display: AF, TP, TA, near/far range, stereo, scan, browse, and program name (not displayed if none).
- ⑧/⑩ Click up/down to switch stations within the current list.
- ⑨ Play/mute.
- Browse stations: Search for stations with strong signals across all bands, each station plays for 5 seconds, then moves to the next station.
- Automatic search and store stations: Search for stations with strong signals across all bands and store them in the playback list①.
- Near/far range: Local (Local)/Remote (DX) mode, defaulting to local mode.

Music
Click the "Music" icon to enter the music playback interface.
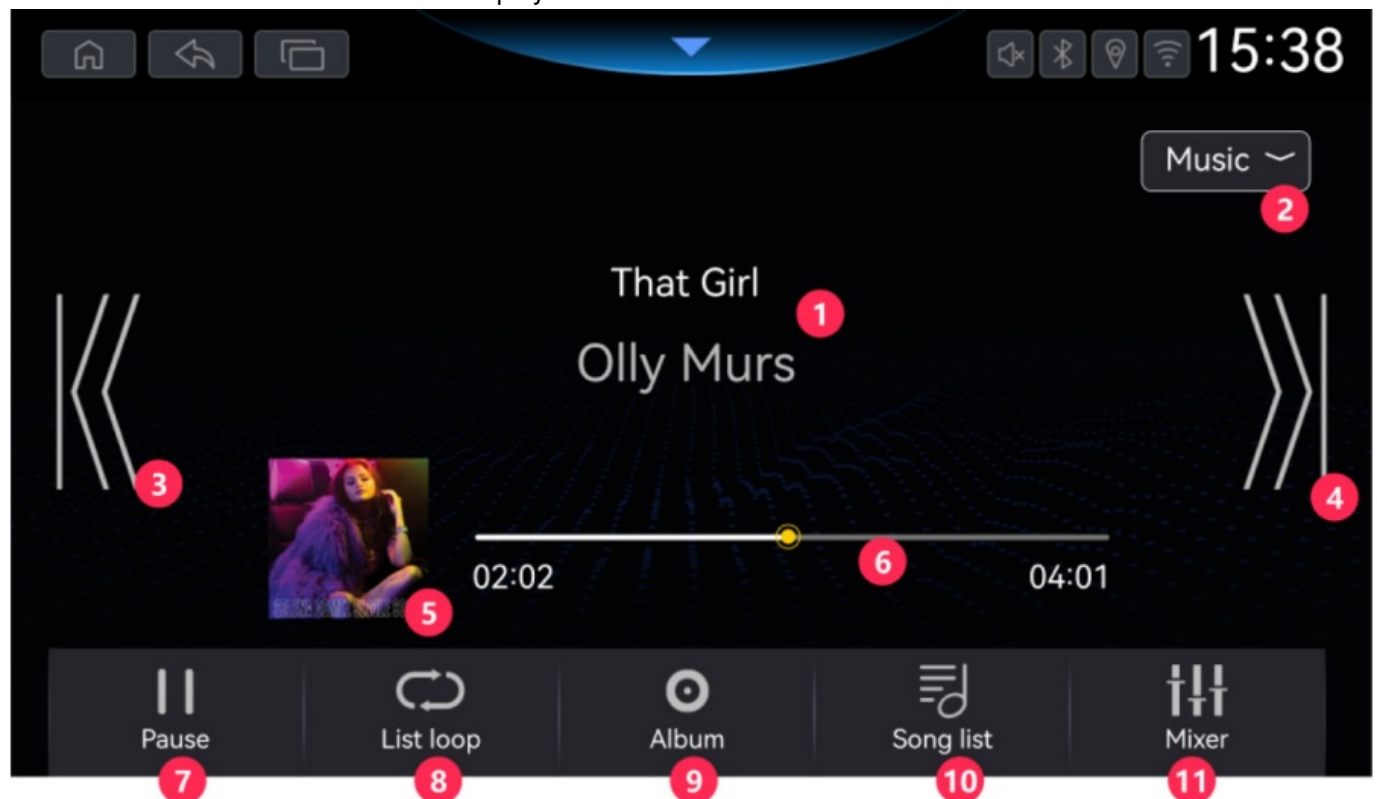
- ① Current playback information area: Click on ⑨ to switch between displaying song title and artist name, spectrum, and lyrics.
- ② Source switching: Switch between local music and Bluetooth music.
- ③and ④ Previous/next track switching.
- ⑤ Album cover: Displays the album cover of the playing song; if not available, it shows the default cover.
- ⑥ Playback progress control: Total playback duration, current playback duration.
- ⑦ Play/Pause.
- ⑧ Loop mode switching: Includes random playback, list loop, single loop.
- ⑨ Album, spectrum, lyrics can be toggled for display.
- ⑩ List: Click to enter the song list.
- Sound effects: Includes sound effect settings, audio scene settings.

Note: Supported music file formats for this product include MP3, M4A, WAV, AMR, WMA, OGG, AAC, MID, etc. Unsupported music formats may prompt format not supported and cannot be played.

Mixer

1. Click the "Mixer" icon to enter the sound effects interface. In the equalizer mode, you can choose the Custom mode to adjust the frequencies of treble, midrange, and bass in three segments. You can also choose from system presets like Normal, Pop, Rock, Classic, and Jazz.
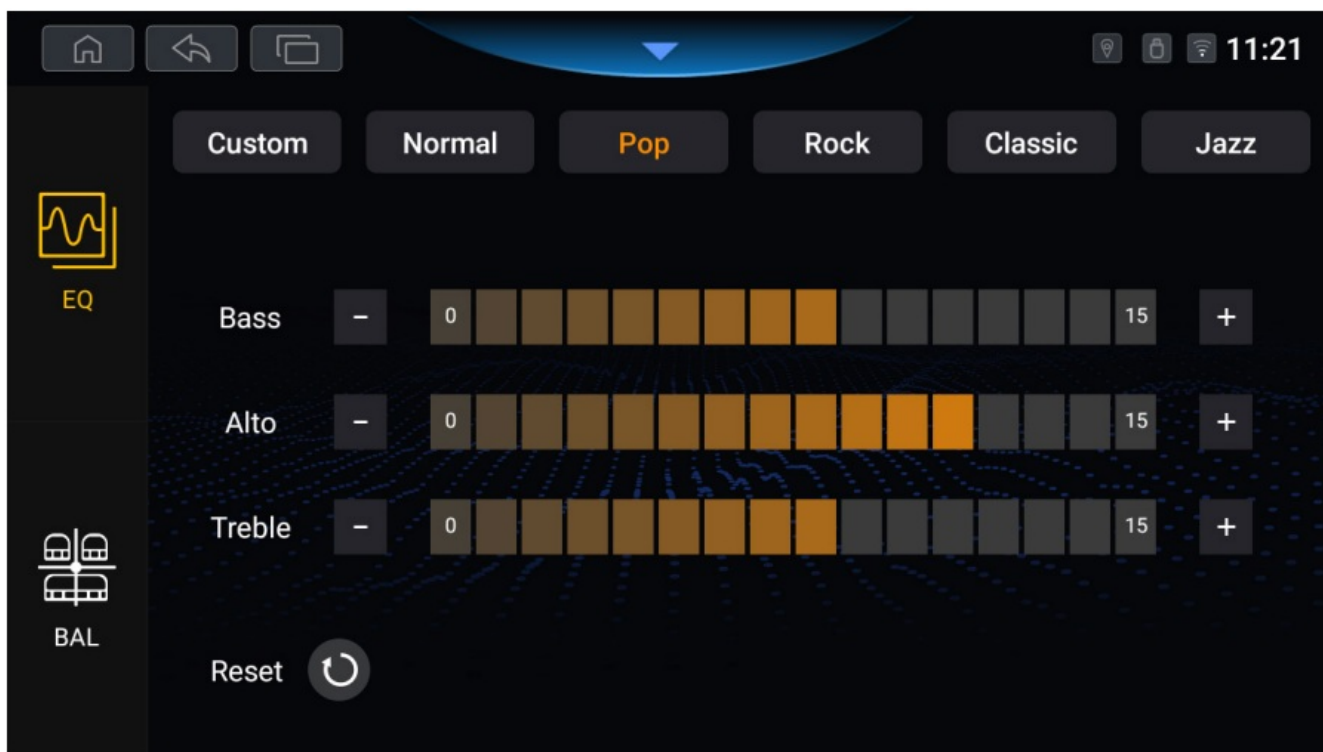
2. Sound field interface: You can choose system presets such as Standard, Driver's seat, Full car mode, or manually drag the cursor to set the values for front/back and left/right.

Videos
Click the "Video" icon to enter the video interface.

1. **Button explanations:**
   - ① List of folders.
   - ② Playlist.
   - ③ Play progress bar.
   - ④ Full-screen/half-screen playback switch.
   - ⑤ Play the previous video.
   - ⑥ Play/Pause.
   - ⑦ Play the next video.
2. This function can play video files from USB, internal hard drive-connected devices.
3. If the vehicle is moving, and you enter video playback, a driving restriction warning box may pop up. Please click on [Handbrake Settings] to disable the handbrake detection, and then you can play videos normally.
4. This product supports video file formats including MP4, TS, ASF, MPG, WMV, 3GP, MKV, AVI, FLV, AAC, MOV, F4V, WEBM, etc.

Photo
Click the "Photo" icon to enter the Photo list interface.

1. Photo list: You can swipe left or right to browse folders.
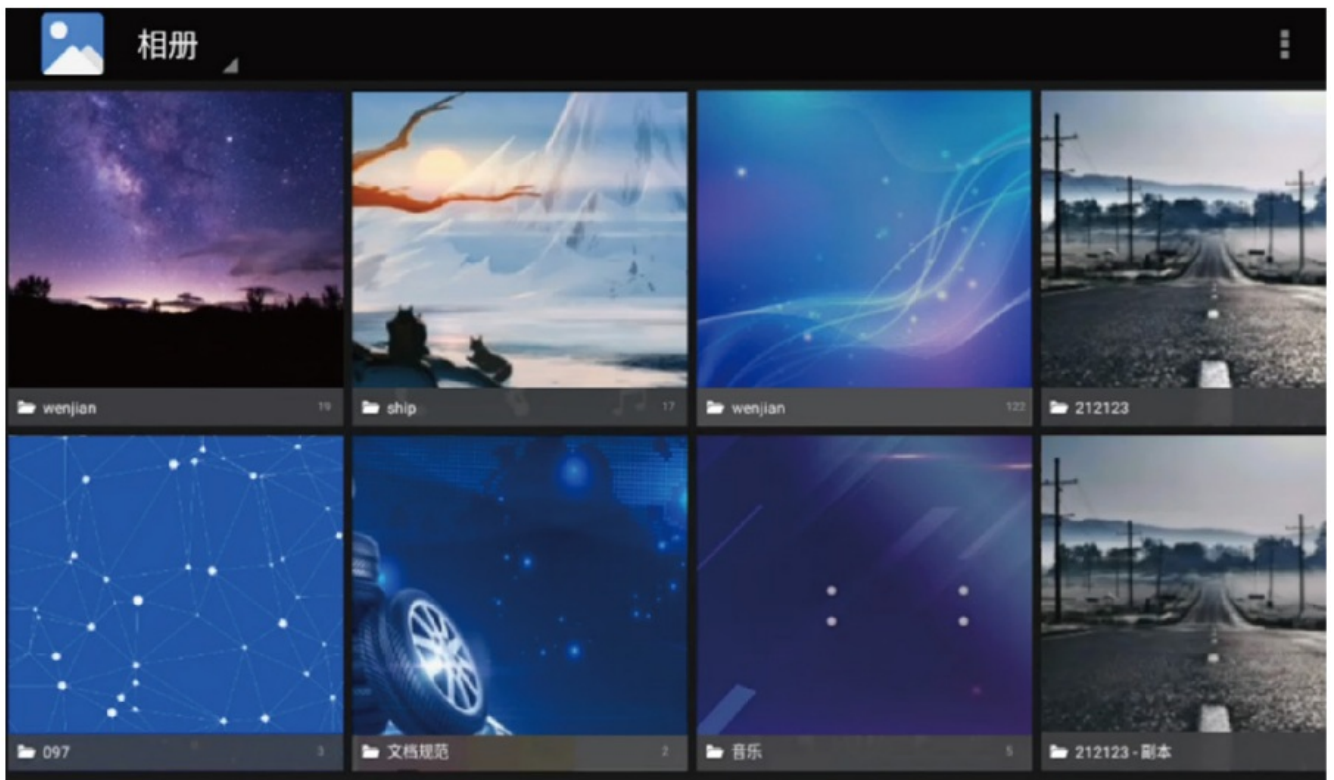
2. Viewing Photo: When viewing Photo, pinch out with two fingers to zoom in on the Photo; pinch in with two fingers to zoom out the Photo.

3. This function allows browsing of pictures on USB-connected or internally hard drive-connected devices.

4. Supported Photo file formats for this product include JPG, PNG, BMP, JPEG, etc.

Bluetooth phone
Click the "Bluetooth Phone" icon to enter the "Dialing" interface.
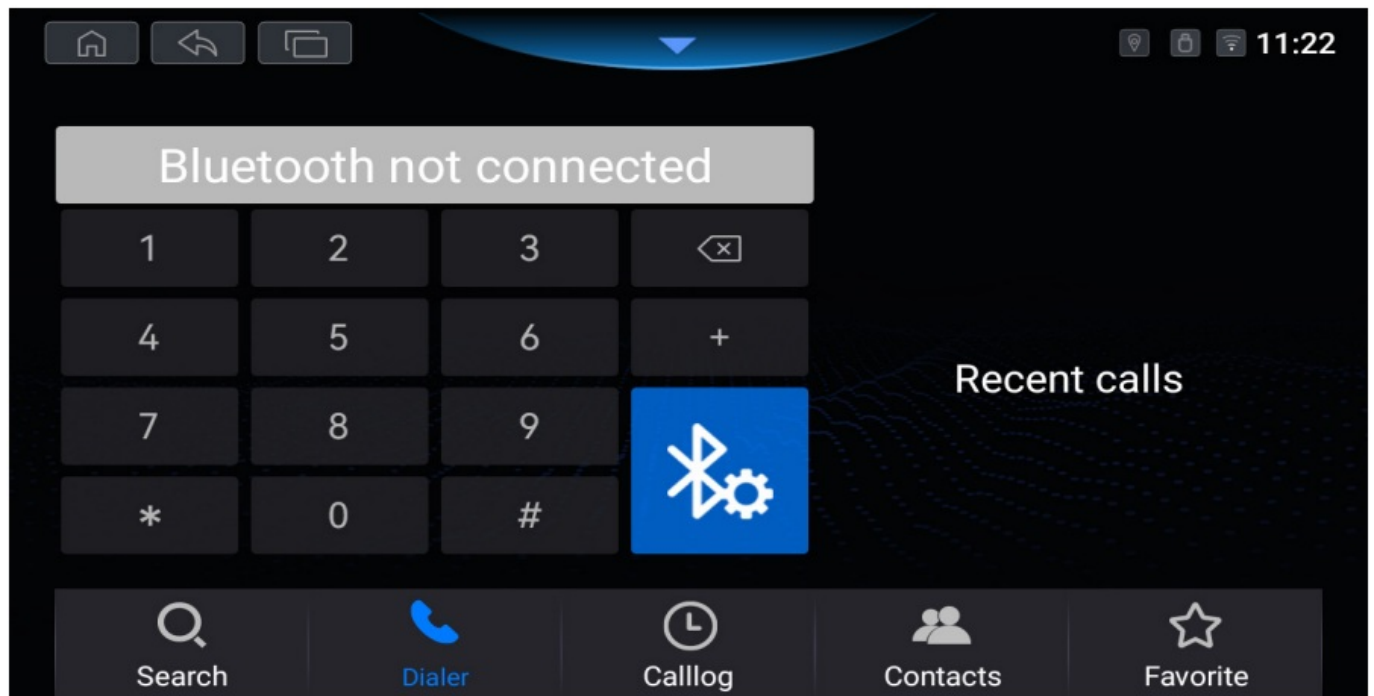
When the phone Bluetooth is successfully connected to the main unit Bluetooth, input the phone number by touching the numeric keypad on the screen, then touch the dial icon [📞] to make a call. During dialing, if the number is entered incorrectly, you can touch the delete icon [⌫] to delete digit by digit, long press the delete icon [⌫] to delete all. While entering the phone number, the right-hand side list will automatically match the corresponding phone number. Touch the phone number in the list to make a call.
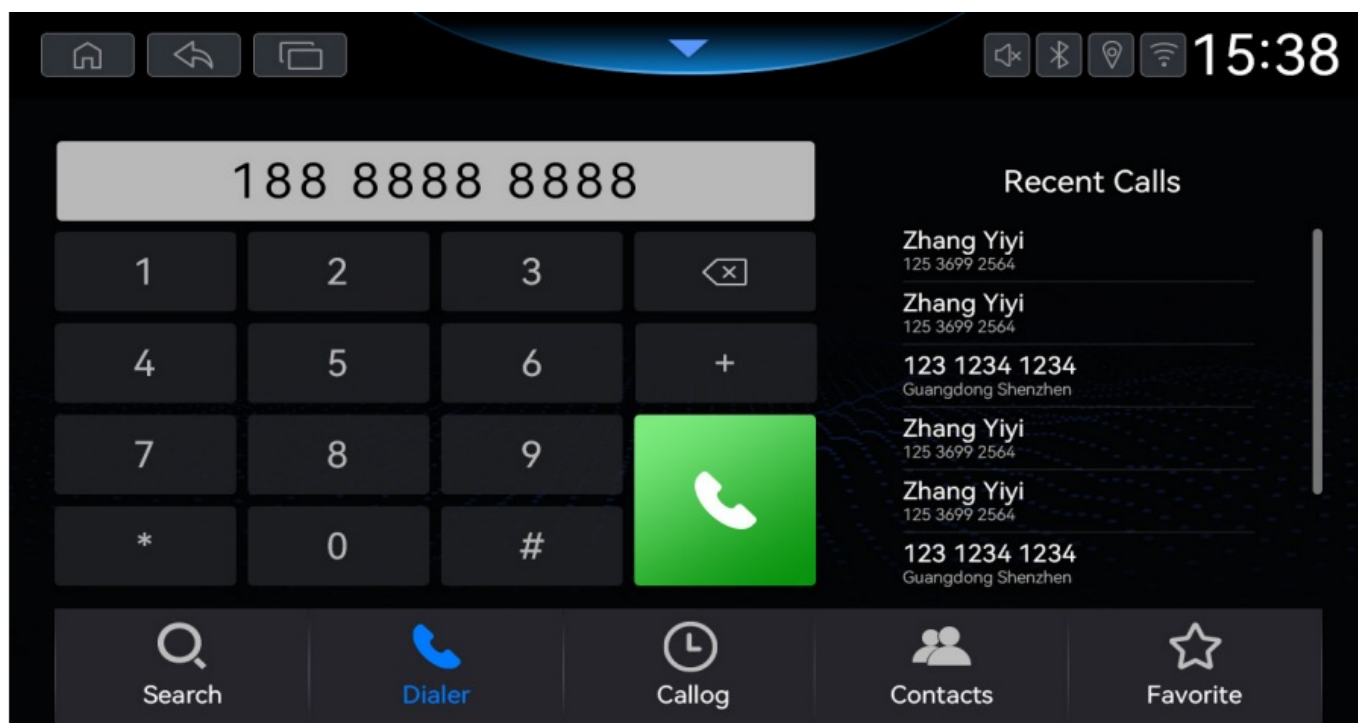
Navigation

Click the [Navigation] icon to enter the navigation interface.
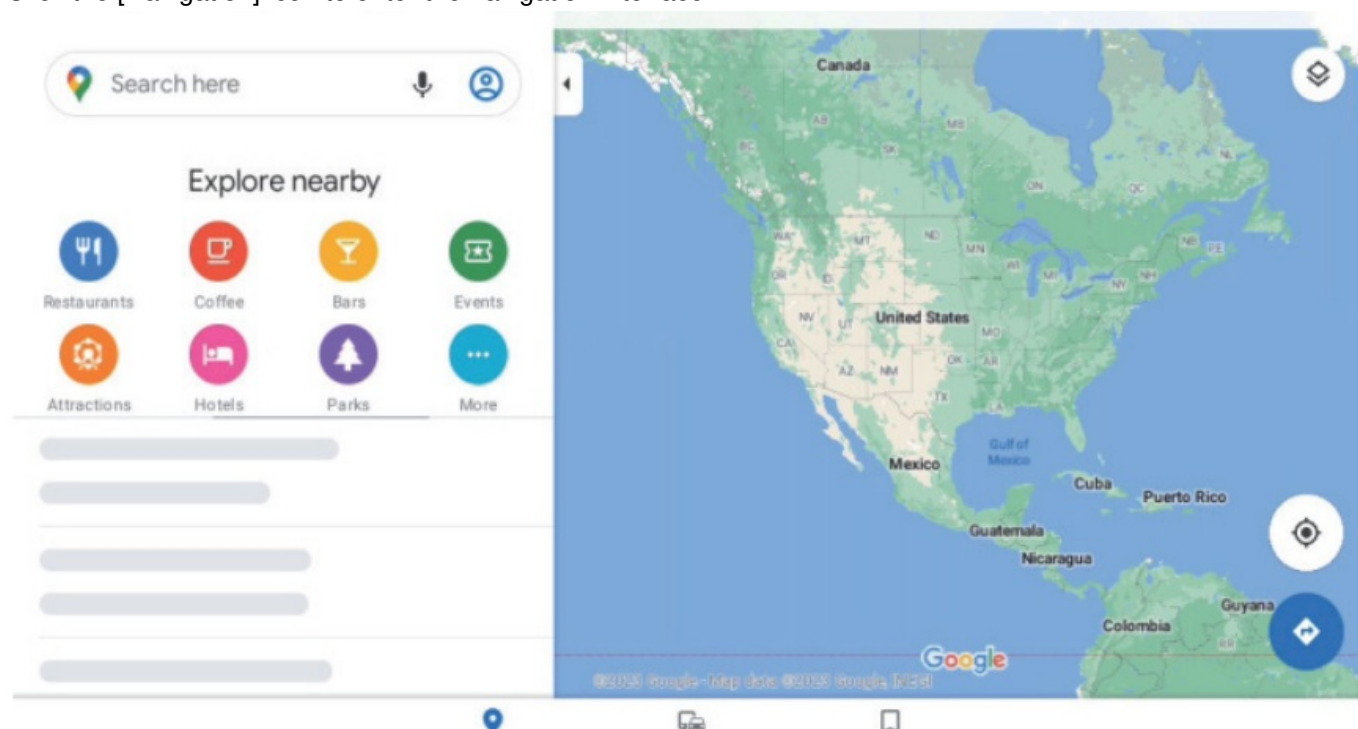
1. Google Maps is an electronic mapping service provided by Google, including detailed satellite photos. In Google Maps, you can view real-time traffic information, nearby locations, and other information. Press the home button [⌂] to exit the navigation interface and switch to the main interface. After exiting the navigation interface, navigation will continue in the background.

2. Instructions before navigation

    1. Confirm that the main unit is correctly connected to the satellite antenna. After powering on for a period of time, the satellite antenna needs to receive satellite signals and update internal information. It will be operational shortly.

    2. Ensure that the vehicle's position is not in an area with poor satellite signal reception, such as tunnels,

under bridges, or near tall buildings.

3. The driver should pre-set the navigation destination while parked. Do not operate the navigation while driving.

Easy connection

1. Easy Connection is a technology and product that connects mobile phones with car infotainment systems. Through Easy Connection, users can project the contents of their phones onto the car's infotainment system, providing a more convenient and enriched user experience.

2. Connection steps:
    1. Download and install the Easy Connection app on the mobile phone.
    2. Open the Easy Connection app on the mobile phone, and enter the Easy Connection interface on the car's infotainment system.
    3. Use the original data cable of the phone to connect it to the car's infotainment system.

Setup
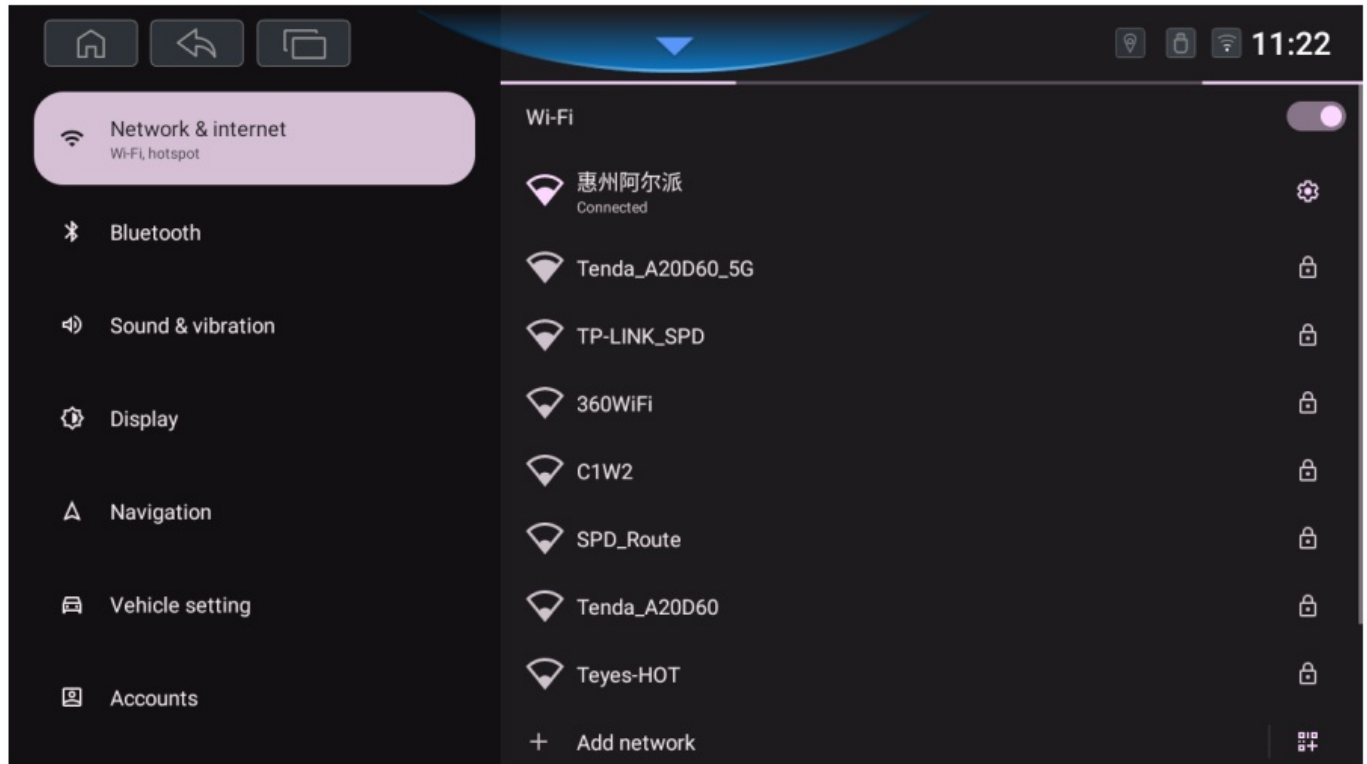
1. **Network**
    1. WLAN connection

        Turn on the WLAN switch to start detecting nearby WLAN networks, displaying a list of available

        networks. If there is a [🔒] icon next to the WLAN in the list, it means that the correct password needs to be entered to connect. After successful connection, the WLAN signal icon will be displayed in the status bar.

    2. WLAN Hot spot

        WLAN and WLAN hotspot functions conflict with each other and can only use one at a time. Turn on the WLAN hotspot switch to convert the GPRS, 3G, or 4G signals received by the system host into a wifi signal and send it out, making the system host a WLAN hotspot and sharing the network with other devices with WLAN capabilities.

2. **Bluetooth settings**

    Turn on the Bluetooth switch to automatically detect nearby Bluetooth devices. If there are paired Bluetooth devices nearby and [Auto Connect] is enabled, the system will automatically connect to these devices. If it is the first time pairing, a Bluetooth connection request dialog box will pop up on the mobile phone, click [Pair] to connect. After successful connection, the Bluetooth connection icon will be displayed in the status bar.

3. **Sound setting**
    1. Reverse Media Volume: When reversing, the media volume is played at a percentage of the original volume; adjustment range: 0~100%.; adjustable range: 0~100%.
    2. System Volume: Adjustment range: 0~30. When the system volume is set to 0, the system is muted, and a mute icon is displayed in the top left corner.
    3. Bluetooth Call Volume: After connecting to a Bluetooth device, adjusts the volume for incoming and outgoing calls. Adjustment range: 0~30.

4. **Display Settings**
    1. Backlight Brightness Adjustment: Drag the slider to adjust the screen backlight brightness. Adjustment

range: 0~100%.

    2. Set startup photo, wallpaper.

    3. Virtual Touch Keys: When enabled, a virtual touch key floating box appears on the screen; clicking the floating box displays 4 keys (home, volume down, volume up, return).

5. **Navigation Settings**

    1. Slide the slider to adjust the navigation mixing ratio. Adjustment range: 0%~100%.

    2. GPS Detection: View the total number of satellites detected and the number of satellites currently in use.

6. **Vehicle setting**

    1. When small lights detection is enabled, the system automatically switches to night mode when small lights are detected, and touchscreen keys automatically increase brightness.

    2. When handbrake detection is enabled, if the handbrake is detected as pulled up, it is considered that the vehicle is in motion. A popup warning appears on the video playback page, prohibiting watching videos.

    3. Clicking on [External Video Input Signal] allows selection of the function for external video input signal as audio/video input or front view.

7. **Account No.**

    1. Click on [Add Account] to bring up the login dialog, and log in with a Google account.

    2. Enable automatic synchronization of app data, a dialog box prompts to synchronize relevant app data logged in with Google account to the network.

8. **Date and Time**

Enable [Automatic Time Setting] to use time provided by the network; when disabled, date and time can be set manually.

9. **Language and input method**

    1. Select text language, supporting 15 language packs.

    2. Set input method, choose between Android keyboard or third-party input method.

10. **10. System**

    1. Click on [System Restart], a dialog box prompts for confirmation, and after confirming, the system automatically shuts down and restarts.

    2. Click on [System Upgrade], a password prompt appears, input the correct password, then detect if there is an upgrade package available.

    3. Factory Reset: Clears all data from the device's internal storage, including Google account, system and app data and settings, downloaded apps, music, Photo, and other user data.

11. **Factory setting**

Factory settings can be configured for machine functions. To enter, the correct pairing password needs to be entered. To ensure normal operation of the machine, it is not recommended for users to change settings.

12. **About Device**

Displays current device information, such as serial number, screen information, software version, MCU version, etc.

FAQs

Unable to connect phone Bluetooth to the car Bluetooth?

If Bluetooth connection fails, you can first turn off the phone's Bluetooth, then turn it back on and search again before reconnecting. If it still doesn't work, you can click on the Bluetooth settings reset, wait a few seconds, then pair and connect again.

No sound in Bluetooth music?

Ensure that the paired phone has audio output.

No response when clicking to download the phonebook?

After Bluetooth connection, when clicking to download the phonebook, the phone will receive a request to download contacts. Confirm and allow the download request before downloading.

Bluetooth name not updated after setting?

If the Bluetooth name doesn't update immediately after setting it, disconnect the Bluetooth and click to pair again.

When a storage device is plugged in, the music player does not update data immediately?

After plugging in a storage device, the music player will detect and scan the data. If the stored data is large, it may take some time to update (a few seconds to about 1 minute). If there is still no update, make sure the storage device is mounted (check the file browser to see if there is a corresponding storage directory. If there is no directory, reinsert the card or check the hardware).

Song file names display garbled characters?

The song name displayed is not necessarily the file name. If the song's encoding is neither a common format nor in accordance with the country's language encoding, encoding display errors may occur.

Documents / Resources

ALPINE INE-AW409S Intelligent Vehicle Mounted Networking System [pdf] User Guide
INE-AW409S Intelligent Vehicle Mounted Networking System, INE-AW409S, Intelligent Vehicle Mounted Networking System, Vehicle Mounted Networking System, Mounted Networking System, Networking System, System

References

- **User Manual**