Nakamichi
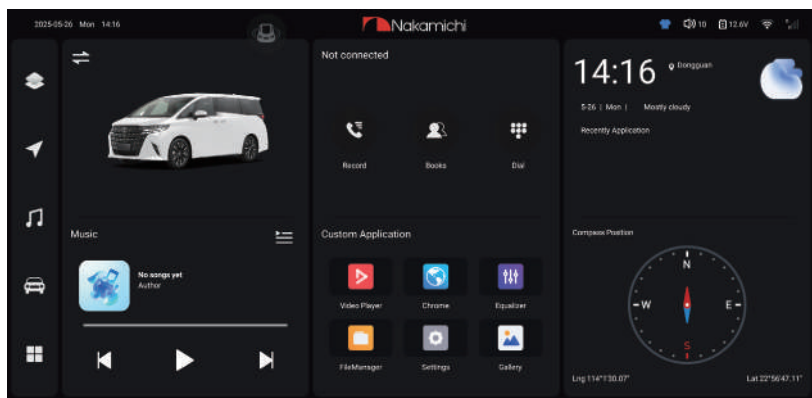
NAM5980 PRO
User Manual

ANDROID MULTIMEDIA RECEIVER
The product size is subject to the actual product

nakamichicaraudio.com   nakamichi.global   nakamichi.caraudio

WARNING & PRECAUTION

To avoid risk of serious injury or possible violation of laws, please read the following thoroughly before installation or connecting.

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

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

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

🚫 Do not watch video or operate the unit while driving.

❗ Be sure to use specified accessory parts and install them securely.

🚫 Do not install in location which may hide vehicle operation, such as steering wheel or gearshift or cover of air bag.

❗ Be sure to use the correct ampere rating when replace fuses. Failure to do so may result in fire of electric shorts.

🚫 Do not touch antenna or any plugs while in thunder storm to avoid electric shock.

❗ Be sure to disconnect the cable from the negative battery terminal wile installation. Failure to do so may result in electric shock or injury due to electrical shorts.

🚫 Do not damage wiring. Failure to do so may result in electric shock or fire due to electrical shorts.

❗ Be sure to connect 'Parking Break' lead so that the driver can not watch the video unless the vehicle is stopped. Failure to do so may result in traffic accident or violation of laws.

🚫 Do not install in locations with in high moisture or dusty. Moisture or dusty that penetrate into this unit may result in product failure.

❗ Be sure to check the installation of antenna regular. Antenna dropping may result in an accident while the vehicle is running.

PRODUCT FEATURES

Hi-Fi Audio

● 5.1 Audio Pre-output

● DSD Audio Playback

● Hi-Res Auido Playback

● Lossless Music Playback

● Center Audio Output

● Subwoofer Audio Output

● Digital Audio: Optic Output

● Digital Audio: Coaxial Output

● High-Power ST7851

● Maximum Power 4x50w

● Professional DSP

● Built-in 36-Band EQ

● Q Value Adjustment

● 20 Preset Sound Effects

● DTS Surround Sound

● Supports TruBass

● Supports Audio Focus

● Supports Circle Surround

● Supports Phantom Center

● 5 Presets DTS Processing

● Supports 4CH,4.1CH,5.1CH

● Supports DP1.4, USB 3.0, TYPE-C interface

Configuration

● 1920x1080 QLED IPS Screen

● 2.5D G+G Full Glass

● Qualcomm 8 Core A76 CPU

● NK13.0 Operating System

● 6+128GB|8+256GB|12+512GB Large Memory

● Built-in 360 Panoramo

● High Sensitivity Radio

● Support 4G Network

● AHD Camera input

● Built-in Bluetooth 5.0

● Supports HDMI Output

● Supports Optical Fiber Output

● Capacitive Screen

● 500 Lumens LCD Screen

● Built-in GPS

● Supports 2.4G/5G Wifi

● USB Playback

● 2160P Video Playback

● Supports iOs Phone Mirrorlink

● Supports Android Phone Mirorlink

● Supports Bluetooth Music Playback

● Supports mobile phone wireless charging
  (Only for NAM5980PRO-AL40)

WIRING CONNECTION
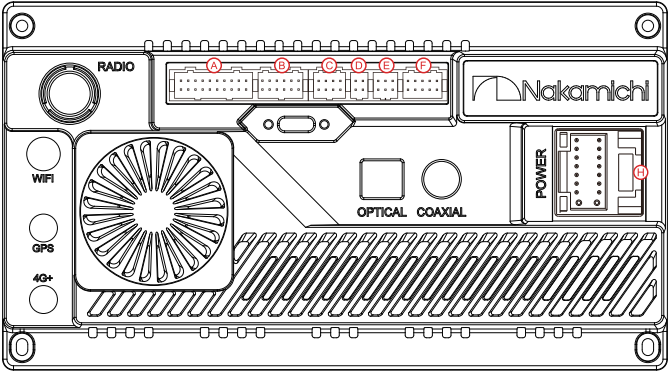
Interface

A: Input/Output/4G SIM

B: 360 Panorama

C: Audio Output

D: 4P USB1

E: 6P USB2

F: Camera input

G: Optical Output

H: Power supply

H:Power

Label	Color	Name
1. BATT+	Yellow	Battery Wire
2. GND	Black	Ground Wire
3. ILLUMI	Orange	Lamp Control Wire
4. ACC	Red	Lgnition Wire
5. KEY2	Brown/Black	Steering Wheel Control Wire 2
6. REVERSE	Pink	Reverse Wire
7. P.ANT	Blue	Automatic Antenna
8. KEY1	Orange/Black	Steering Wheel Control Wire 1
9. RL-	Green/Black	Rear Left Speaker-
10. FR-	Gray/Black	Front Right Speaker-
11. RL+	Green	Rear Left Speaker+
12. FR+	Gray	Front Right Speaker+
13. RR+	Purple	Rear Right Speaker+
14. FL-	White/Black	Front Left Speaker-
15. RR-	Purple/Black	Rear Right Speaker-
16. FL+	White	Front Left Speaker+

A: Input/Output/4G SIM

Label	Color	Name
AR VIDEO IN	Yellow	Front Camera Video Input
FL Audio Out	White	Audio Front Left Output
FR Audio Out	Red	Audio Front Right Output
Subwoofer Out	Green	Audio Subwoofer Output
MIC	Black	External MIC Interface
AUX Video In	Yellow	Video Input
AUX IN-R	Red	Audio Right Input
AUX IN-L	White	Audio Left Input
SIM	Black	4G SIM Card
AMP	Green	AMP

C: Audio Output

Label	Color	Name
RL Audio Out	White	Audio Rear Left Output
RR Audio Out	Red	Audio Rear Right Output
Coaxial Output	Green	Coaxial Output
Center Out	Brown	Center Out
Can Agreement	Green	Can-TX
Can Agreement	Green/Black	Can-RX

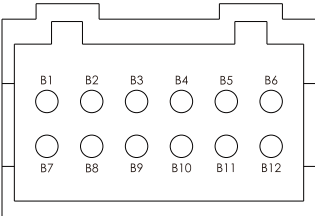## F: Camera Input

Label	Color	Name
Camera Input	Yellow	Camera Signal Input
Camera Power Supply GND	Black	Camera Power Supply GND
Camera Power Supply +12V	Red	Camera Power Supply +12V
BRAKE	Pink	Brake Detection

B: 360 Panorama

Pin	Name	Pin	Name
B1	Left Turn Detection	B7	Right Turn Detection
B2	Ground	B8	Front Camera Input
B3	Ground	B9	Right Camera Input
B4	Ground	B10	Rear Camera Input
B5	Ground	B11	Left Camera Input
B6	Power + 5V	B12	Power + 5V
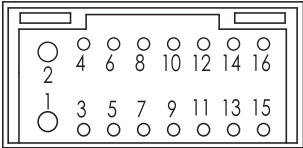
H

B

NAM5980 Pro-AL40 ACCESSORY LIST

Please check the following accessories after opening the package:

Power Supply Wire x1	Power Supply Wire x1	20P Input/Output Cable x1

10P Camera Input Cable x1	8P Audio Output Cable x1	4P USB Wire x1, 6P USB Wire x1

4G Antenna x 1	GPS Antenna x1	Mounting Screws Φ5x16mm x6

External Microphone x1	Back cover x1	Air outlet x2

Fast charging box x1	left and right side shells x1	User Manual x1
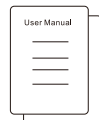
NAM5980 Pro-A9Z/AXZ/A13 ACCESSORY LIST

Please check the following accessories after opening the package:

Power Supply Wire x1	8P Audio Output Cable x1	20P Input/Output Cable x1

10P Camera Input Cable x1	4G Antenna x 1	4P USB Wire x1

6P USB Wire x1	GPS Antenna x1	User Manual x1

User Manual

Mounting Screws Pack x1	External Microphone x1

FRONT PANEL

NAM5980 Pro-AL40

NAM5980 Pro-A9Z/AXZ/A13

Function	Operations & Controls
1. Air conditioning knob (left)	Turn the knob to the left to decrease the temperature or wind speed of the left air conditioner, turn it to the right to increase the temperature or wind speed of the left air conditioner, and press it to switch the air direction;
2. Air conditioning knob (right)	Turn the knob to the left to decrease the temperature or wind speed of the right air conditioner, turn it to the right to increase the temperature or wind speed of the right air conditioner, and press it to switch the temperature and wind speed mode;
3. MIC	Microphone: Voice receiving position.
4. ⟨FRONT⟩ FRONT	Heated windshield: Defogger
5. A/C	Air conditioner A/C switch;
6. PWR/VOL	Turn the knob left to decrease the volume, turn it right to increase the volume, short press to mute, long press to pause the screen;
7. ⟨icon⟩	Face and floor air outlet
8. ⟨icon⟩	Heated rearview mirror: Defogger
9. RST	Press with a pointed object (such as a ball point) to reset the unit to its initial setting by the factory (default stage);
10. AUTO	Automatic air conditioner;
11. OFF ✿	Air conditioner wind speed switch;
12. - ✿ +	Adjust wind speed
13. Auto ⟨icon⟩	Air conditioner internal and external circulation switch;
14. ⟨icon⟩	Front windshield, floor and front wind outlet

HOME MENU

⬡ Split screen display

◀ Map Navigation

🎵 Music playback

🚗 Original car information

⊞ Home Menu:
  Click to enter the secondary menu;
  Short press to mute;
  long press to turn off the screen

| Original car information | Bluetooth Applications | Time interface | Music playback | Custom Applications | Compass direction |

Main Interface Icon Replacement And Movement

NAM5980 Pro supports:
1. Change the position of the main interface icon on the home page
2. Support moving the secondary interface icon to the home page

The operation is as follows:
1. Press and hold the icon to be moved,
2. Drag the icon to move it to the desired position.

Secondary Application Interface

Click [⊞] to directly enter the secondary application interface, and click [⌂] to return to the main interface of the home page.
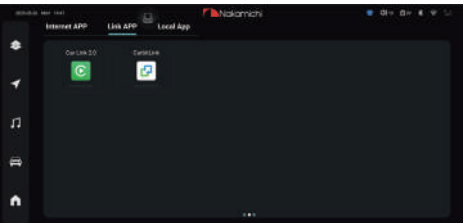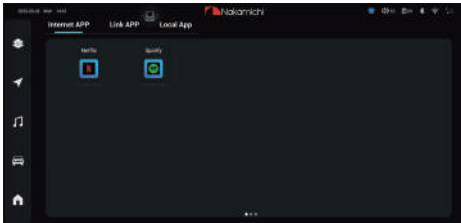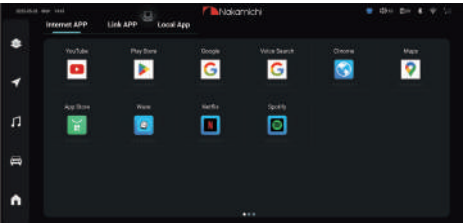
RADIO SETTINGS

Radio Settings

Click [▦] to directly enter the secondary application interface, and then click [📻] to enter the Radio.
Click [⚙] to enter the Radio Settings.

FM Interface
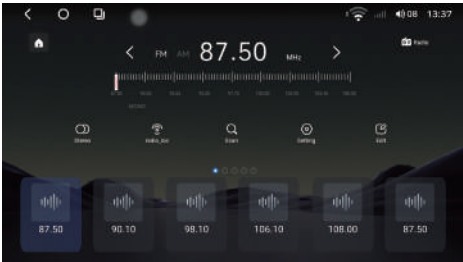
AM Interface

◀ ▶ Front and back channel selection   ⬭ Stereo   🔍 Scan   FM AM Switch AM/FM

📝 Edit:Favorite or delete a station   📡 RAdio_loc   ⚙ Setting   📶 Radio station selection
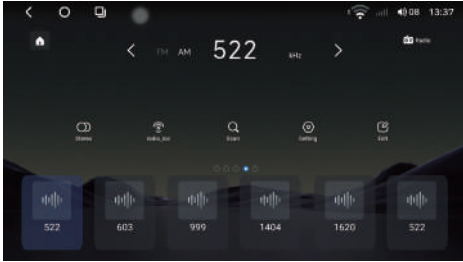
BLUETOOTH SETTINGS

Click [▦] to directly enter the secondary application interface, and then click [📞] to enter the Bluetooth interface

BT Phone
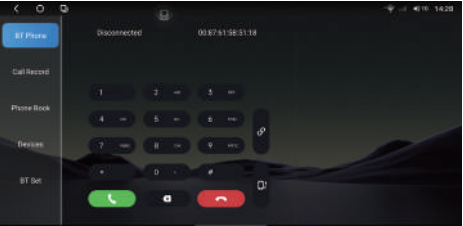
Call Record
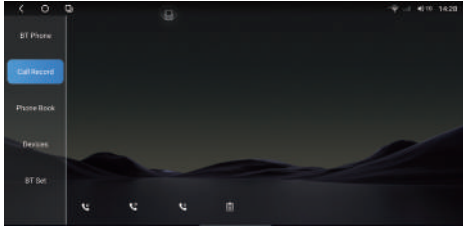
Phone Book
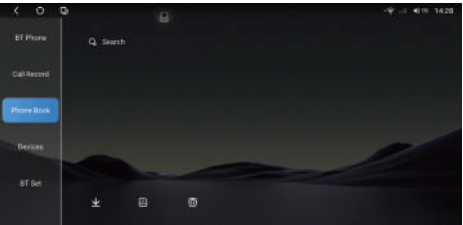
Devices
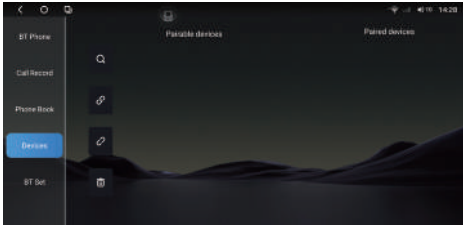
BLUETOOTH SETTINGS

Bluetooth Music
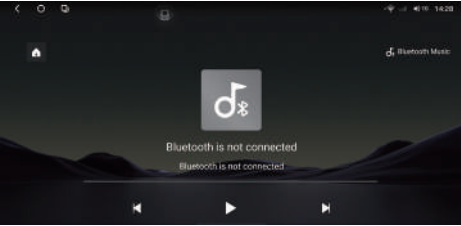
Click [▦] to directly enter the secondary application interface, and then click [▦] to enter the Bluetooth Music.

◀ Previous track

▶ Play / Pause

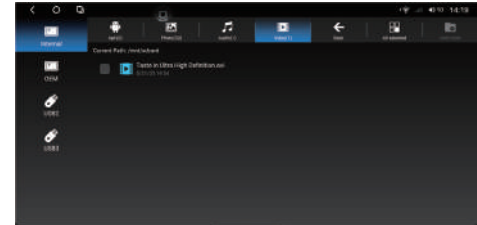▶▮ Next track

MUSIC PLAYBACK

Click [▦] to directly enter the secondary application interface, and then click [♪] to enter the Bluetooth Music.
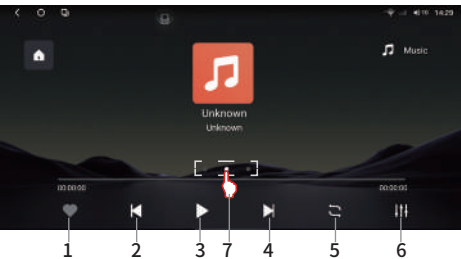
♡ Music Collection

◀ Previous track

▶ Play / Pause

▶▮ Next track

🔁 Single loop, All loops, Random play

▥ Equalizer

••• Flip Page

VIDEO PLAYBACK

Click [▦] to directly enter the secondary application interface, and then click [▶] to enter the video playback.

▤ Playlist   ❚❚ Play / Pause   🔁 Single loop, All loops, Random play

◀ Previous track   ▶▮ Next track   ⧉ Zoom out/Zoom in

Note: When using USB to play 4K videos, the video bit rate exceeds 60Mbps and the video may not play. Please store the video file locally on the copier and play it normally.

EQUALIZER SETTINGS

Click [▦] to directly enter the secondary application interface, and then click [▥] to enter the equalizer interface.
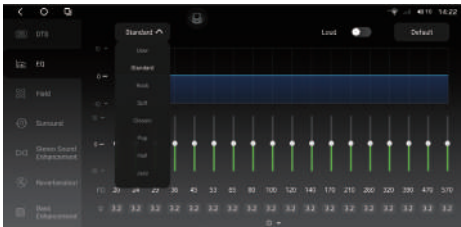
DTS Settings

DTS 4.1Channel Click [DTS 4.1Channel] to enter the DTS 4.1 channel interface and adjust the sound effects.

DTS 5.1Channel Click [DTS 5.1Channel] to enter the DTS 5.1 channel interface and adjust the sound effects.

Default Click [Default] to return to the default value.

EQ Settings

1. This device is equipped with 36-band EQ adjustable: 20Hz, 24Hz,29Hz, ……
2. Click [User] to choose from a variety of sound effects: Standard, Rock, Soft, Classic, ……

Field Settings

This interface can adjust the driving mode, co-pilot mode, rear car mode, and all car mode.
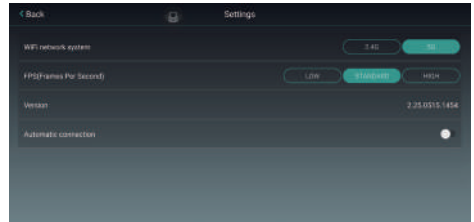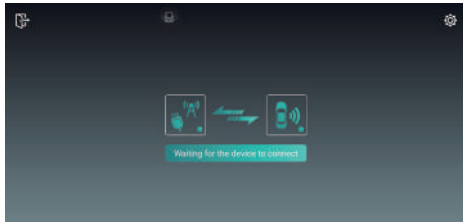
Surround Settings

The values that determine the listening position are automatically calculated if you specify the distance from the center of the currently set listening position to each speaker.

Default Click [Default] to return to the default value.

CAR LINK

Car Link 2.0 Connection Interface

1. Click[▦] to enter the secondary menu, and find the Car Link 2.0 icon [ⓒ] under the directory "Link APP".
2. You can directly use Bluetooth connection.

3. Select [⚙] to enter the settings interface and set , Automatic connection
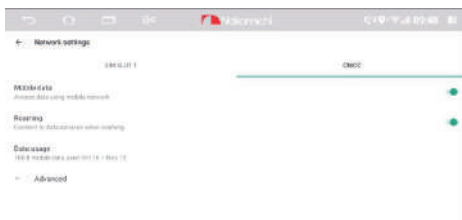
4C LTE NETWORK

1. Install the 4G antenna(refer to the wiring diagram) and fixit in an appropriate position in the car.
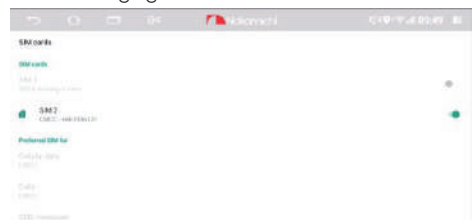

Install Mobile SIM Card 1

2. Enable the mobile data function


The following figure shows the SiM card slot 2

At this point, the system will automatically start to search for 4G signal, and display the 4GLTE signal icon in the upper right corner of the display screen, and you can use the product to browse web pages or related apps.

360 PANORAMA VIEW

1. Click[ ] to enter the secondary menu, and find the 360 Panorama icon [ ] under the directory "Local App".

   The left side of the 360 panorama display interface is apanorama bird's-eye view, the right side is the current camera display screen, and the bottom is the shortcut keys and setting switches. Panorama tuning is automatically started when the host is turned.

2D Mode Interface
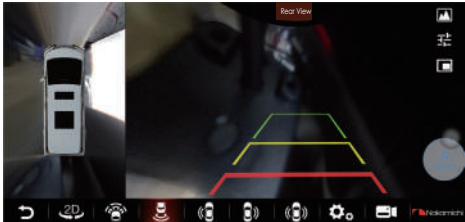
3D Mode Interface
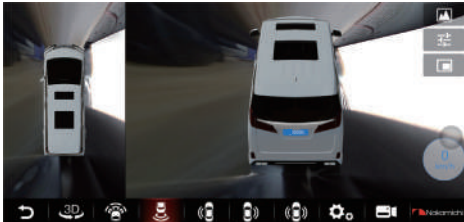
 Back button, click to return to the home menu.

 Click this icon to switch to 2D or 3D mode.

 Front view: Click to display the front view of the vehicle, and click again to correct the projection to display the dead ahead view of the vehicle
Remark: Display 3D effect view in 3D mode.

 Rear view: Click to display the rear view of the vehicle, and click again to correct the projection to display the dead astern view of the vehicle.
Remark: Display 3D effect view in 3D mode.

 Left view,Click to display the left front view of the vehicle; click again to display the left dead ahead view of the vehicle; click again to display the left rear view of the vehicle.
Remark: Display 3D effect view in 3D mode.

 Right view: Click to show the right front view of the vehicle; click again to show the right dead ahead view of the vehicle; click again to show the right rear view of the vehicle.
Remark: Display 3D effect view in 3D mode.

 Width-limited mode: Click to see narrow roads on the left and right sides.
Remark: Display 3D effect view in 3D mode.

 Click to enter the setting interface.On the setting interface, can set the model, reverse line mode, adjust the view, DvR Settings, view the version information, set the display time and other functions.

   Note: Yellow highlighted at the bottom of icon indicates that the View mode is selected currently. Click [ ]System Settings to enter the 360 system settings page, and open 360 stitching in parameter management.

 Video: Click to see the front, back, left and right video.

GPS ANTENNA CABLING INSTALLATION

GPS Antenna Wiring Diagram

Choose to install an antenna inside the car
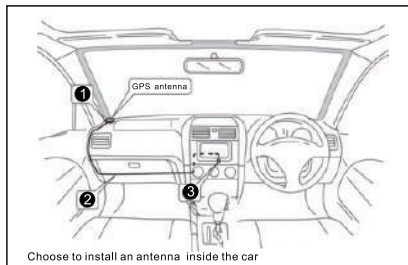
Notice:

1. The GPS antenna can be installed inside the car, such as on the instrument platform, or outside the car, such as on the roof.

2.The GPS antenna must have an open "view" facing the sky. If the vehicle glass is affixed with explosion-proof film or heat-insulating film, it may greatly reduce the intensity of the satellite signal received by the GPS antenna; in this case, it is recommended to install the GPS antenna outside the vehicle.

GPS antenna installation steps:

1. Before pasting the GPs antenna, be sure to clean the adhesive area with an appropriate oily cleaner. After cleaning, tear off the paper on the back, place the GPs antenna and press it firmly.
2. Remove the side panel and pass the cables through the storage compartment until they reach the main console, making sure that the GP cables are tied securely to the original cables.
3. Connect the GPS antenna plug to the host computer.

CAMERA WIRING INSTALLATION AND SETTING

Camera Wiring Installation Diagram
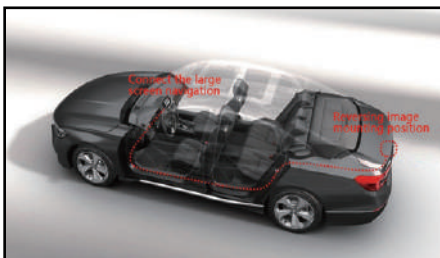
Rear mirror type setting

1. Press [▦] on the panel to enter the home page.
2. Click[⚙] to enter the setting interface.
3. Click to factory reset password 1948.
4. Click to switch the reversing camera mode: normal reversing, reversing 360.
5. Reversing camera format selection: TVI and AHD

Installation steps of the reversing image wing:

1. Connect the reversing signal cable plug to the host, remove the left side panel, pass the camera extension cable through the center console driver's seat, then pass the cable through the trunk and remove the waterproof sealant on the side of the vehicle. Glue to the sides of the rear cockpit and fill the trunk with score lines.
2. Remove the lining of the trunk door. The camera device is located above the license plate. Insert the camera cable into the trunk and connectit to the extension cable.It needs to be wrapped with electrical tape when docking.
3.The positive pole of the camera power supply is connected to the positive pole of the reversing light, and the negative pole is connected to the positive pole of the reversing light. Please note that it needs to be wrapped with electrical tape.

SETTING

Wireless Network

PATH: Home Page > Settings > Wireless Network
1. Click [wiFi] to turn on wifi.
2. When WiFI is turned on, the machine automatically searches for nearby WIFFI connections.
3. Enter the password.
   Note: After the connection is successful, the WIFI icon [📶] will be highlighted.
4. Click [Mobile network] to enter the open mobile network.

General Setting

PATH: Home Page > Settings > General
General settings: Press any key to start, Auto-start Navigation,OSD Time, Navi App, Home Window Application Settings, Voice App, Control custom application, Voltage display switch, Fan setting, Automatically open after startup.

Fan setting

PATH: Home Page > Settings > General
> Fan setting
1. Click [Fan control mode] to select manual mode, CPU temperature mode and volume mode.

Factory Setting

Factory Setting

PATH: Home Page > Settings > Factory
1. Click [Factory]and enter the password[1948]to enter the factory setting interface.
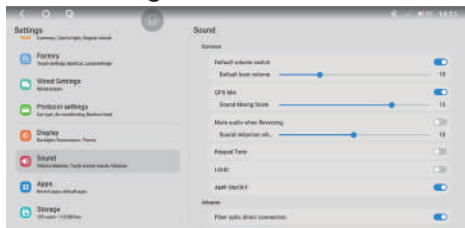
SETTING

Protocol Setting
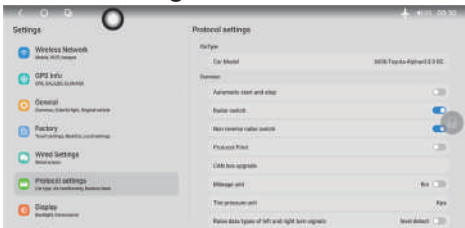
PATH: Home Page > Settings > Protocol Setting
This interface can be used to set Car type, Air conditioning, Backcar track, etc.

System Setting

PATH: Home Page > Settings > System
This interface can set: Languages & input, Date & time, Software updates, Reset options

About Device

PATH: Home Page > Setting > About device
1. In this interface, you can view the version information of the machine.
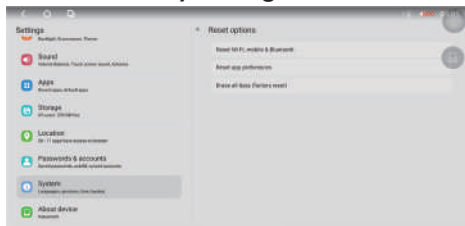2. You can view the version upgrade schedule.

Sound Setting

PATH: Home Page > Settings > Sound
Can set key sound to on or off, adjust media volume, Navigation volume, bluetooth volume, GPS mixing, music dro ratio when reversing.
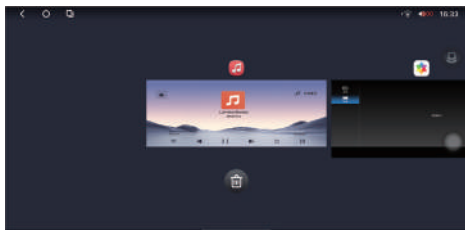
Reset to Factory Settings

PATH: Home Page > Settings > System
> Reset options
1. Enter the password "1948" to enter the Reset options interface,
2. Click [Erase all data (factory reset)] to restore the factory reset.

Clean Interface

1. Pull down the top of the screen and [▢]will appear. Click the icon to pop up the clearing interface.
2. Click [🗑] to clear memory.

SETTING

SWC Keys setting
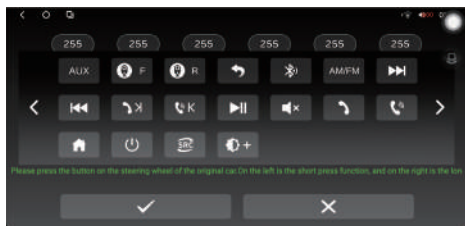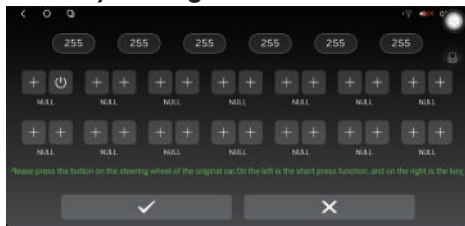
PATH: Home Page > Setting > Control 🎛
1. Learn each function button as prompted.
2. After learning the steering wheel function keys
   click save to exit the learning interface.

Air conditioning settings

Click this icon [🔽] to open or close the air
conditioning interface.

COMMON TROUBLESHOOTING GUIDELINES

| FAULT	REASON	SOLUTION
Unable to boot	Power supply fuse burned out.	Replacement of the same type of fuse.
	Other factors cause microprocessors to work abnormally.	Reboot the unit using the reset button. Press the reset button with a pointed object.
When the ignition is switched off, all setting information is lost.	Replacement of batteries or fuses.	Reset the information and restore if after replacing the fuse or batteries.
The radio is ineffective	Weak radio signal.	Try again in a different location.
No image	Other factors cause microprocessors to work abnormally.	Reboot the unit using the reset button. Press the reset button with a pointed object.
Silent output	Small voice.	Increase the volume.
	Output line incorrectly connected.	Check output line connection.

PRECAUTIONS ON POWER SUPPLY AND SPEAKER CONNECTIONS:

Do not connect the speaker cables of the power cord to the car battery; otherwise, the unit will be seriously damaged.
BEFORE connecting the speaker cables of the power cord to the speakers, check the speaker wiring in your car.
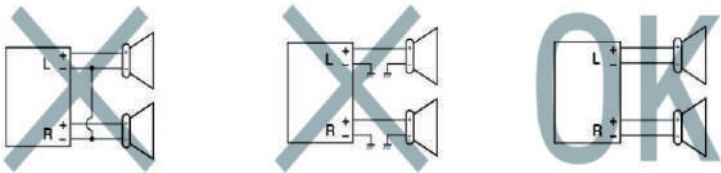
SPECIFICATION

General
Operation Voltage: 9-16V
Operating Temperature: -40°C ~ +85°C

System
Operating System: NK13.0
DDR +FLASH:
6+128GB | 8+256GB | 12+512GB

Radio
FM Frequency Range: 87.5-108.0MHZ
MW Frequency Range: 522-1620KHZ

Bluetooth
Communication System: BT5.O+EDR
Output: BT Standard Power 9 dBm
Max Communication Range: 15m
Frequency Band:2.4GHz

USB Interface
USB: Readable/ Chargeable
(5+0.25V/1A)

Wi-Fi
Standard:802.11a/b/g/n/AC
Spectral Band:2.4GHz/5GHz

Audio
Max Power: 4X50W
Front Output(V): 4V/10KΩ
Pre-output impedance: ≤600Ω
Speakers impedance: 4-8Ω

TFT Screen Item
NAM5980 PRO-AL40
Size:15.6"
Display Resolution: 1920x1080
Contrast Ratio: 500
Brightness: 500nit

TFT Screen Item
NAM5980 PRO-A9Z, AXZ
Size: 9", 10"
Display Resolution: 2000x1200 or 1280x720
Contrast Ratio: 500
Brightness: 500nit

Video
External Video Input System:
NTSC/PAL/SECAM
External Video Input: 1VP-P/759

Video Format
Codec Support:
H264/H265/MP4/AVI/MKV/FLV/VP8/VP9
Video Capture Support:
2160P30FPS/1080P 120FPS/720P 240FPS

Audio Format
DSD/MP3/MP4/APE/AAC/FLAC/AMR/WAV

Note:
Specification and design; functions and features; unit illumination; color and display segmentare subject to change without prior notice. Photos and drawings on gift box or operation manual might be varied from the exact unit. Depends on the input devices operation might be varied from the operation manual described.

CONNECT WITH US ONLINE TO EXPLORE NAKAMICHI'S COMPLETE RANGE,
INSTRUCTIONS & SOFTWARE DOWNLOADS AND WARRANTY REGISTRATION.

WWW.NAKAMICHICARAUDIO.COM

 nakamichi.global   nakamichi.caraudio