

Nakamichi

NAM5510

User Manual



9" /10.1" TOUCH LCD SCREEN

Dear Customer

Congratulations on purchasing our Nakamichi mobile system product for your sound system.

This product has been designed and manufactured to Nakamichi's exacting standards to ensure many years of audio enjoyment. For the best performance, we recommend that you have your Nakamichi product installed by an authorized Nakamichi dealer.

If you would like to install this product on your own, we recommend for you to go through this manual to familiarize yourself with all the installation requirements and procedures.

If you encounter any issues or if you have any questions on the operation of this product, please contact your nearest authorized Nakamichi dealer for assistance, or you may also contact us through our website or social media channels.

Installation Of Your Product

In today's modern vehicles, it is very easy to cause damage to existing systems through improper installation. Please follow and scrutinize all wiring diagrams to ensure that you have connected everything in its proper place. If you find yourself uncomfortable or unfamiliar with understanding the wiring and installation diagrams or testing instructions, do contact your nearest Nakamichi dealer to perform the installation for you.

Safety Warnings And Considerations (For Amplifier / DSP / Active Woofer)

- Clean only with a dry cloth or other similar materials.
- Install your product in a dry, well-ventilated location that does not interfere with your vehicle's safety equipment.
- Do not block any ventilation openings when installing this product.
- Do not mount the product in the engine compartment of your vehicle or in any areas of extreme heat such as mufflers, silencers, exhaust pipes
- Or other heat producing apparatus.
Securely mount the product so that it does not come loose in the event of a collision or as a result of repeated vibrations that might occur
- During normal operation.
Installation of the apparatus must be done with great care to prevent damage to your vehicle's fuel lines, power, and other electrical wiring, Hydraulic brake lines, and other systems. If possible always visit your
- Nearest Nakamichi dealer to perform the installation.
Do not run any wiring outside or underneath the vehicle. Keep all wires inside the vehicle.

- Take the necessary precautions when making connections to the vehicle's battery to avoid any potential shock.
- Protect all system wires from sharp edges by carefully routing them, always use rubber grommets to protect wiring and cables whenever you are installing them through metal openings.
- Secure all wiring using cable ties or wire clamps to protect them from moving parts and sharp edges.
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, shall be placed on the apparatus. Refer all servicing to qualified service personnel. Servicing is required
- When the apparatus has been damaged in any way, such as the power input terminals are damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Fuses shall be replaced only with the correct type and fuse value, and only when the apparatus is powered off.
- Exposure to high sound pressure levels may lead to permanent hearing loss. Take every precaution to protect your hearing.
- This product is designed specifically for use with 12 volt, negative-Ground electrical systems only. Using this product in systems with positive ground and/or voltages other than 12V may result in damage to the product and your system.

Warranty Considerations

Nakamichi warrants this product to be free of defects in materials and workmanship for a period stated by your country's authorized Nakamichi distributor. This warranty is not transferable and applies only to the original owner who has purchased from an authorized Nakamichi dealer.

Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Nakamichi will (at its discretion), Repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller.

This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

Warranty is void if the product's serial number has been removed or defaced.

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PRODUCT FEATURES

- Android 12.0 operation system
- Cortex-A53 architecture. Faster 2.0 GHZ
- Support iOS Phone MirrorLink
- Support for Android Phone MirrorLink
- Version: Bluetooth HS/V5.0
- Support bass and surround sound
- 1280*720P high-definition LCD display
- 2.5D G+G capacitive screen
- 4G running speed
- 64G storage space
- Supports 720/1080P video playback
- Support video picture-in-picture
- Maximum power 4×50W
- power amplifier ST7851
- BUILT-IN Bluetooth: Supports A2DP
- Built-in 14Band DSP EQ sound adjustment
- Support agreement box
- Manufacturer coverage rate of 95%
- Supports 4G LTE network
- Support bluetooth music playback
- Support bluetooth shared network
- Supports HD 720P/1080P AHD camera
- Supports a forward-looking 720P/1080P HD camera
- Standard 2-channel USB
- Supports USB DVR
- Support USB DVR playback
- Support driving record video preview
- Support DVR driving recording
- Support WiFi/mobile hotspot Internet
- Built-in GPS positioning
- Built-in multi-color lights
- Supports APK download, installation and uninstall
- Supports hot start second boot
- Supports lossless music
- Supports 360 panoramic view

INTRODUCTION OF TOUCH KEY FUNCTION

ACCESSORY LIST

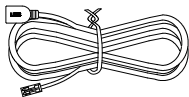
Power Cable x1



Rear View Interface Wire x1



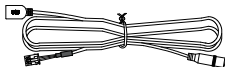
4P-USB Wire x1



GPS Antenna x1



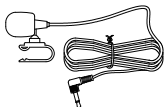
6P-USB Wire x1



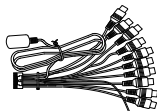
Installation Screw x5



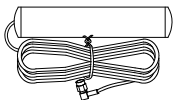
3.5mm Micphone Wire x1



20P-RCA Wire x1



4G LTE antenna x2



User Manual x1



INTRODUCTION OF TOUCH KEY FUNCTION



1. Power Key: While unit is powered on, short press mutes the unit, While long press turns the unit off.
2. Home Menu: Press to enter the main menu
3. Return Key: Press to return to the previous page
4. Volume +: Press to increase volume, long press increases volume continuously.
5. Volume -: Press to decrease volume, Long press decreases volume continuously.

FUNCTIONAL APPLICATION

SAFETY INSTRUCTIONS

1. In order for safe driving and to avoid violating any traffic regulations, please do not watch any videos and do not operate the unit while driving.
2. In order to avoid short circuiting the unit, please do not expose the unit to rain or any other source of water.
3. In order to avoid short circuiting the unit, please do not expose the unit to any bare metal during installation.
4. Do not attempt to dismantle the unit for maintenance, all service and maintenance should be performed by an authorized service centre or technician.
5. When the engine is turned off, avoid using the unit for an extended period of time as this might drain the car's battery.
6. Wipe the screen carefully! Do not use sharp objects to push against the screen.

HOME MENU

Upon booting, the unit will enter to home menu, as shown below.



FUNCTIONAL APPLICATION

THE FUNCTIONS ARE AS FOLLOWS:



: Click to enter radio interface.



: Click to enter Zlink interface.



: Click to enter bluetooth interface.



: Click to enter music interface.



: Click to enter settings interface.



: Click to enter video interface.



: Click to enter Google map interface.



: Click to enter radio interface.



: Click to view all the applications.



: Click to enter car settings interface.




: Click to turn off screen.

FUNCTIONAL APPLICATION

RADIO

Touch "Radio" in home menu to enter radio interface.

Touch [] icon can return to home menu.

Touch [] icon to switch band FM/AM.


Touch [] icon to search for stations automatically.

Touch [] icon to select a local or remote station.

Touch [] icon to input specific station.

Touch [] icon to open RDS.


Touch [] icon to set the audio effect.

Long press [] for 2 seconds to searching stations by upward , if one station is found will stop searching automatically, press this icon to fine-tune by upward.

Long press [] for 2 seconds to searching stations by downward , if one station is found will stop searching automatically, press this icon to fine-tune by downward



Zlink

1. Press  to enter Zlink, the mobile phone can be connected to the in-vehicle infotainment device through Android USB and iPhone Wi-Fi.

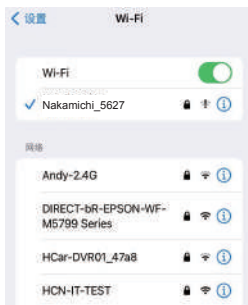
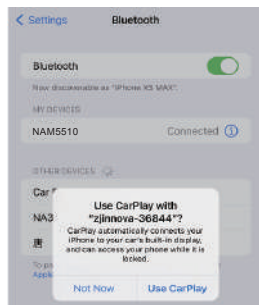
2. Wireless Zlink:

I-phone connects the car navigation through Bluetooth, click Zlink to enter the pop-up dialog box, and click use Zlink.

FUNCTIONAL APPLICATION

Zlink: (Connection instructions for some iOS mobile phones)

1. Turn on the bluetooth of the mobile phone to connect the Bluetooth of the head unit (NAM5510). After the bluetooth connection of the car, the ZLink connection interface will pop up automatically.
2. Confirm using CarPlay on mobile.
3. If the above steps cannot be connected, you need to connect the mobile phone WiFi hotspot.

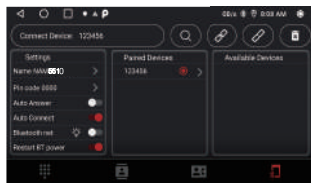


FUNCTIONAL APPLICATION

BLUETOOTH

After connecting your mobile phone to your unit using Bluetooth, you will be able to make phone calls and play music.

Press the Bluetooth icon to enter the Bluetooth interface.



If your product is NAM5510-A9/AX, Bluetooth name is: NAM5510

If your product is NAM5510-A9Z/AXZ, Bluetooth name is: NAM5510

Touch [🔍] to search Bluetooth devices.

Touch [🔗] to connect the currently selected Bluetooth device.

Touch [🔗] to disconnect the currently Bluetooth device

Touch [🗑️] to delete a paired device.

360 PANORAMIC VIEW

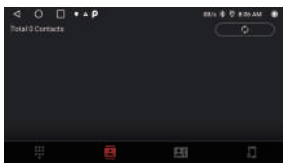
Press [📷] or Front camera icon to enter 360 panoramic view.

The left side of the 360 panoramic display interface is a panoramic bird's-eye view, the current camera display screen is on the right side, and the shortcut and setting switches are at the bottom. The panoramic view function is automatically activated when the head unit is turned on.

Dial Phone



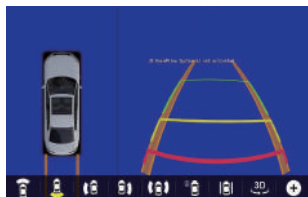
Phone book



Call log



FUNCTIONAL APPLICATION



Front View, press it to display the front of the vehicle



Rear view, press it to display the rear of the vehicle



Yellow highlighted at the bottom of icon indicates that the View mode is selected currently.



Left view, press it once to display the left side flat view of the vehicle, press again to display the left side 3D view



Right view, press it once to display the right side flat view of the vehicle, press it again to display the right side 3D view



In road edge mode, press the left and right cameras to view the surroundings that near the front and rear tyres.



Streaming media mode. After pressing, there is a full-screen view of the front, rear, left and right images that can be selected at the left side



In limited width mode, after pressing, the bird's-eye view will be displayed in the middle, and the left and right camera images will be displayed on the left and right sides.



Panoramic 3D mode, press to enter the full-screen 3D picture



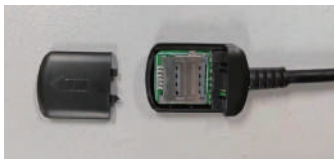
Press it to enter the brightness, recording video list and panorama setting interface, user can choose if show 360 panorama and set the duration of the panorama display in the general settings of this icon.

Remark: The user can choose the camera (one of the three cameras of single rear view / front and rear view / 360 panoramic view) to install according to the needs, please consult the local dealer for the specific installation method.

FUNCTIONAL APPLICATION

4G LTE NETWORK

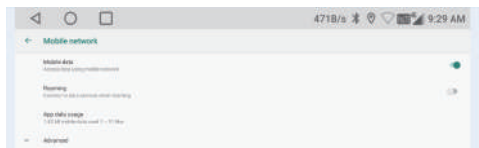
1.Install the 4G antenna (refer to the wiring diagram) and fix it in an appropriate position in the car.



Install mobile SIM card 1



2.Enable the mobile data function



The following figure shows SIM card slot 1



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.

FUNCTIONAL APPLICATION

SETTINGS

Touch "Settings" icon from home menu to enter below picture:



1. Network & Internet

Wi-Fi: Press the button on the right of the Wi-Fi to turn on. After turning on the Wi-Fi, if there is a Wi-Fi network available around device, it can be searched in the list, press the name of the WLAN need to connect, and enter the password to connect.

2. APP: to view all the installed apps.

3. Storage: to check device storage and storage used.

4. Security & Location: to turn on or off location function, choose location mode, check App location permissions etc.

5. Users & accounts: to manage user accounts.

6. Accessibility: to enable your installed accessibility applications and adjust related settings.

7. Google: to set the parameters related to Google setting of services & preferences.

8. Car settings: It can be used for steering wheel control learning, reverse auxiliary line switch setting, etc. Check "Car Settings" for details.

9. System

a. Language and Input.

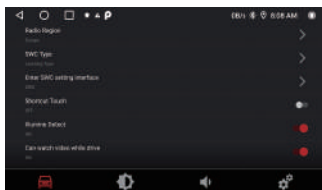
b. Date and time: it can select GPS or network to automatically determine the time and date. It allows to customize the setting date, time, time zone and time display format.

c. Reset options: can be restored to factory settings.

d. About Car: check the system software version, MCU software version, android version, model, etc.

FUNCTIONAL APPLICATION

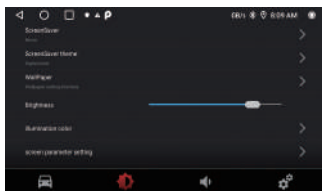
Car Settings



Click options can choose settings.

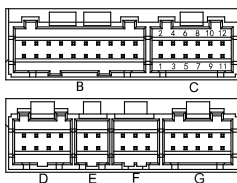
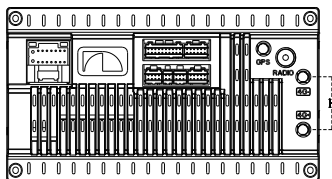


Click options can choose settings about volume and sound.



Click options can choose settings about display screen & brightness etc.

WIRE CONNECTION



- A--Power
- B--AV
- C--360 Panoramic View
- D--Can bus
- E--4P USB
- F--6P USB
- G--Camera
- H--4G ANT

A: Power

Label	Color	Name
GND	Black	Ground wire
BATT+	Yellow	Battery wire
ACC	Red	Ignition wire
ILLUMI	Orange	Lamp control wire
REVERSE	Pink	Reverse wire
KEY1	Orange/Black	Steering wheel control wire 1
KEY2	Brown/Black	Steering wheel control wire 2
P. ANT	Blue	Automatic antenna
FR-	Gray/black	Front right speaker-
FR+	Gray	Front right speaker+
RL-	Green/Black	Rear left speaker-
RL+	Green	Rear left speaker+
FL-	White/Black	Front left speaker-
FL+	White	Front left speaker+
RR-	Purple/Black	Rear right speaker-
RR+	Purple	Rear right speaker+

B: AV

Label	Color	Name
AV IN VIDEO	Yellow	Video input
AV IN L	White	Left audio input
AV IN R	Red	Right audio input
VIDEO OUT 1	Yellow	Video output 1
VIDEO OUT 2	Yellow	Video output 2
LINE OUT FRONT L	White	Front left audio output
LINE OUT FRONT R	Red	Front right audio output
LINE OUT REAR L	White	Rear left audio output
LINE OUT REAR R	Red	Rear right audio output
LINE OUT SUBWOOFER	Green	Subwoofer output
PWR CON	Blue/White	Power amplifier control
SIM DATA CABLE	Black	4G LTE card slot

G: Camera

Label	Color	Name
CAMERA-R	Yellow	Reverse camera input
PARKING	Brown	Brake control
CAMERA-F	Yellow	Front camera input
CAMERA Power-F	Red	Front camera Power

C: 360 Panoramic View

Pin	Name	Pin	Name
1	RIGHT_TURN_IN	7	LEFT_TURN_IN
2	FRONT_AHD_IN	8	D_GND
3	RIGHT_AHD_IN	9	D_GND
4	REAR_AHD_IN	10	D_GND
5	LEFT_AHD_IN	11	D_GND
6	360_POWER_5V	12	360_POWER_5V

TECHNICAL PARAMETERS

SPECIFICATIONS

Voltage:14.4V(10.5-16V)
Working Temperature:-10℃~+70℃
Storage Temperature:-20℃~+80℃
Net Weight: 845g/985g

TFT DISPLAY

Display Size:9.0" /10.1"
Display Resolution:1280x720
Contrast Degree:500

RADIO

North America :
FM Frequency Range:87.5-107.9MHZ
AM Frequency Range:530-1710KHZ

Europe:
FM Frequency Range:87.5-108MHZ
AM Frequency Range:522-1620KHZ

Latin America:
FM Frequency Range:87.5-108MHZ
AM Frequency Range:520-1620KHZ

VIDEO FORMAT

H264/MP4/AVI/MKV/FLV

USB INTERFACE

USB:Readable/Chargable
(5±0.25V/1A)

VIDEO

External Video Input System:
NTSC/PAL/SECAM
External Video Input:1VP-P/75Ω

AUDIO

Maximum Power:4x50W
Front Output(V):4V/10KΩ
Pre-Output Impedance:≤600Ω
Speaker Impedance:4-8Ω

BLUETOOTH

Communication System:BT5.0+EDR
Output: Bluetooth Standard Power
Level 2 Maximum Communication
Range:About 5 Meters.
Band:2.4G

AUDIO FORMAT

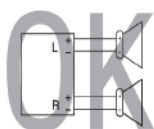
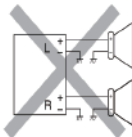
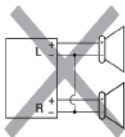
MP3/APE/AAC/FLAC

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 by pressing the reset hole on the panel with the pointed object point
When the ignition switch is turned off, all the information of setting is lost.	Replacement of batteries or fuses	Replace batteries or fuse and enter settings again.
The radio is ineffective	Weak radio signal	Try again by moving the car to another location
	Failure to connect radio antennas leads to weak signals	Connect the antenna and try again.
No image	Other factors cause microprocessors to work abnormally	Reboot by pressing the reset hole on the panel with the point of the pointed object
Silent output	Small voice	Increase the volume required
	Output line incorrectly connected	Check Output Line Connection

Do not connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.

BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.





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

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文件名 File Name	23CHZ054-IM-V1.1	版次 Revision	V1.1
机型 Project#		比例 Scale	1:1
客户/品牌 Customer		公差 Tolerance	±3mm
尺寸+P数 Size	英文版,145*105mm, 共 20P	设计 Designer	陈慧虹
材质 Material		审核 Checked	陈瑞琴
工艺 technique	封面G128双铜, 内页80克书写纸, 彩色印刷, 打钉	设计日期 Design Date	2022.7.30

注释: Remarks:	描述 Description
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