



NAM5230

User Manual



9" / 10.1" HD ANDROID RECEIVER

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

- The Android NK12.0 System
- Support ios Phone Mirrorlink
- Support Android Phone Mirrorlink
- Built-in 12/Band ASP EQ Sound Adjustment
- Support Heavy Bass Sound
- Support Mixed Alarm Sound
- Built-in EQ Adjustment: Loud Gain Adjustment
- 1280*720P AHD LCD Display
- Capacitive Touch Screen
- 32G Large Storage Space
- Support 720/1080P Video Playback
- Support Video Picture-in-picture
- Support Lossless Music
- High Sensitivity Digital Radio
- Support APK Download, Installation and Removal
- Built-in Bluetooth: Supports A2DP
- Version: Bluetooth HS/V4.0
- Support Bluetooth Music Playback
- Support Bluetooth Sharing Network
- Support 720P/AHD Camera
- Support Fast Reversing
- 2 USB Channels Are Standard
- Support USB DVR
- Support USB DVR Playback
- Support Dashcam Video Preview
- Support DVR Driving Recording
- Support Wifi/ Mobile Hotspot Internet Access
- Built-in GPS Positioning
- Built-in Multi-color Lamp
- Maximum Power 50Wx4

◇ **T series:**

1. Screen Resolution: 1024x600 IPS
2. Radio: FM, Without AM
3. Pre-Output: 2.1 (FL/FR/SUB)

◇ **Video output:**

The video output function of converter box can be purchased separately for this product. Please refer to the distributor for details.

ACCESSORY LIST

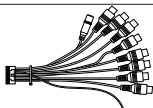
Power Cable x1



Rear View Interface Wire x1



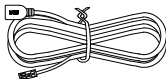
20P-RCA Wire x1



GPS Antenna x1



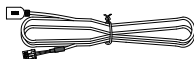
4P-USB Wire x1



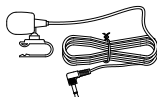
Installation Screw(PB3*8MM) x6



6P-USB Wire x1



3.5mm Microphone Wire x1



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.

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.

FUNCTIONAL APPLICATION

HOME MENU

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



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 play music through Bluetooth.



: Click to enter the Av In input.



: Click to enter EQ adjustment.

FUNCTIONAL APPLICATION

 : 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.

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.



FUNCTIONAL APPLICATION

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:

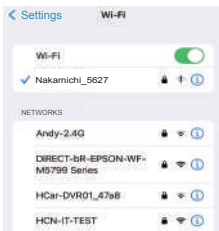
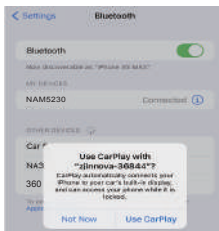
I-phone connects the car navigation through Bluetooth, click Zlink to enter the pop-up dialog box, and click use Zlink.

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. After the bluetooth connection of the car, the ZLink connection interface will pop up automatically.

2. Confirm using CarPlay on mobile.

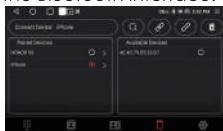
3. If the above steps cannot be connected, you need to connect the mobile phone WiFi hotspot.



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.



Your product is NAM5230-A9Z/AXZ.
Bluetooth name is NAM5230.

Your product is NAM5230T-A9Z/AXZ.
Bluetooth name is NAM5230T.

Touch [] to search Bluetooth devices.

Touch [] to connect the currently selected Bluetooth device.

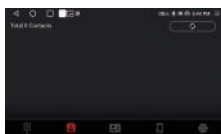
Touch [] to disconnect the currently Bluetooth device

Touch [] to delete a paired device.

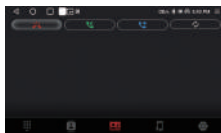
Dial Phone



Phone book



Call log



Car Settings



Click options can choose settings.



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

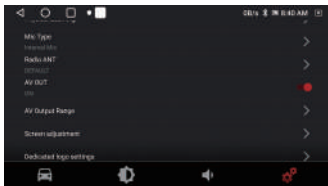
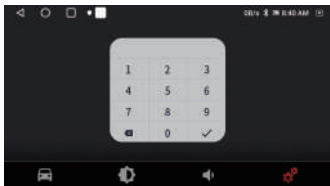


Click options can choose settings about volume and sound.

FUNCTIONAL APPLICATION

If the customer selects AV out adapter box, this function should be enabled in the setting menu, as shown below:

password:1948



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

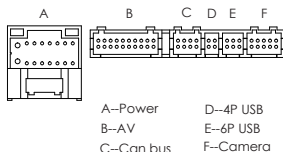
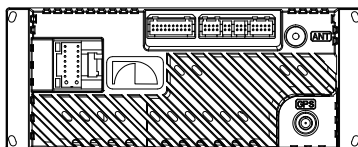
a. Language and Input.

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.

WIRE CONNECTION



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
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	Pink	Power Amplifier Control
MICROPHONE JACK	Black	Microphone Input

D:4P USB

Pin	Name	Pin	Name
1	USB_DM	3	GND
2	USB_DP	4	USB_5V

C:Can bus

Pin	Name	Pin	Name
1	PWR_CON	5	GND
2	AUX AUDIO IN	6	NC
3	NC	7	NC
4	CAN_RX	8	CAN_TX

F:Camera

Label	Color	Name
CAMERA-R	Yellow	Reverse Camera Input
PARKING	Gray	Brake Control

E:6P USB

Pin	Name	Pin	Name
1	NC	4	NC
2	USB_DM	5	GND
3	USB_DP	6	USB_5V

◇ **T series:**

Pre-Output: 2.1 (FL/FR/SUB)

TECHNICAL PARAMETERS

SPECIFICATIONS

Voltage:14.4V(10.5-16V)

Working Temperature:-10℃~+70℃

Storage Temperature:-20℃~+80℃

Net Weight: 778/881g

TFT DISPLAY

Display Size: 9"/10.1"

Display Resolution:1280×720

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

AUDIO FORMAT

MP3/APE/AAC/FLAC

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:50W×4

Front Output(V):2V/10KΩ

Pre-Output Impedance:≤600Ω

Speaker Impedance:4-8Ω

BLUETOOTH

Communication System:BT4.0 +EDR

Output: Bluetooth Standard Power

Level 2 Maximum Communication

Range:About 5 Meters.

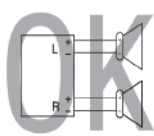
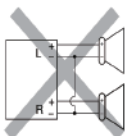
Band:2.4G

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	23CHH058-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16 p	设计 Designer	陈慧虹
材质 Material 工艺 technique	全书120G铜版纸, 彩色印刷,打钉, 封面过光油	审核 Checked	陈瑞琴
		设计日期 Design Date	2023.2.28
注释: Remarks:	描述 Description		