

NAM5950 User Manual



9"/ 10" ANDROID MULTIMEDIA RECEIVER

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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.





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 airbag.



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



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

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



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

PRODUCT FEATURES

Configuration

- NK 10.0 operating system
- Cpu 8-Core A75 Architecture
- 9"/10.1" IPS Screen
- 720x 1280 resolution
- 500 lumens LCD display
- Support multicolor key backlight
- 2.5D G+G Capacitive screen
- 4G or 8G large memory
- 64G or 128G storage space
- Support ios Phone link
- Support Android Phone link
- Built-in bluetooth 5.0, support A2DP
- Support bluetooth music playback
- Support USB playback
- Support 1080P video playback
- Support Picture-in-Picture playback
- Support double screen differential display
- Support external microphone interface
- Support AHD camera reversing
- Built-in GPS
- Support Wifi
- High sensitivity radio, support FM AM RDS
- Support USB DVR
- Supports 4G SIM Cards
- 2 channel audio input
- 1 Fiber optic audio output
- 1 video input
- Built-in professional DSP
- 30 band EQ setting
- Preset 5 sound effects, 1 User-defined Settings
- Support HPF, LPF
- Support time delay setting
- Support intelligent bass control
- Supports loudness Settings
- RCA 4.1CH Audio Pre-output
- Maximum power: 4 x 50W

WIRING CONNECTION



A: Input/Output/4G SIM Card B: NA C: Audio Output D: 4P USB E: 6P USB F: Camera Input G: Power Supply H: Radio ANT

1:	GPS

J: 4G

	G:Power						: Cam	era Input
Lobel	Color	Name	Lobel	Color	Name	Lobel	Color	Name
GND	Black	Groud Wire	FR-	Grey/Black	Front Right Speaker-	Camera Inp	ut Yellow	Reverse Camera Input
B+	Yellow	Battery Wire	FR+	Grey	Front Right Speaker+	Brake	Light Green	Brake Control
ACC	Red	Lgnittion Wire	RL-	Green/Black	Rear Left Speaker-	WIFI-ANT	Blue	Wifi Wire/Bluetooth Wire
ILL	Orange	Lamp Control Wire	RL+	Green	Rear Left Speaker+	DVR Camer	1	DVR Camera Power
BACK	Purple/White	Reverse Wire	FL-	White/Black	Front Left Speaker-	Power Suppl +12V	/ Red	Supply +12V
KEY1	Brown	Steering Wheel Contrl Wire1	FL+	White	Front Left Speaker+	DVR Camera		DVR Camera Power
KEY2	Brown/Black	Steering Wheel Contrl Wire2	RR-	Purple/Black	Rear Right Speaker-		Supply GND	
P.ANT	Blue	Automatic Antenna	RR+	Purple	Rear Right Speaker+			

	A:Extend						C: Audio Output			
Lobel	Color	Name	Lobel	Color	Name	Lobel	Color	Name		
Video In	Yellow	Video Input	FL Out	White	Audio Front Left Output	CAN_TX	Green	Can Bus TXD		
Left AUX	White	Aux Left Input	SIM	Black	SIM Card	CAN_RX	Green/ Black	Can Bus RXD		
Right AUX	Red	Aux Right Input	MIC	Black	Microphone Interface	SPDIF Out	Brown	SPDIF Output		
Subwoofer Out	Brown	Audio Subwoofer Output	Amp. Control	Blue/ White	Power Amplifier Control Wire	RR Out	Red	Audio Rear Right Output		
FR Out	Red	Audio Front Right Output				RL Out	White	Audio Rear Left Output		

ACCESSORY LIST

Check and identify the contents of your package:

- 1.16P ISO Cable x 1pc
- 2.20P InPut/OutPut Cable x 1pc
- 3.8P Audio Output Cable x 1pc
- 4.4P USB Cable x 1pc
- 5.6P USB Cable x 1pc

FRONT PANEL

- 6. GPS Antenna x 1pc
- 7.4G Signal Cable x 1pc
- 8. 10P Camera Input Cable x 1pc
- 9. User Manual x 1pc
- 10. Install Screw x 5 pc



Function		Operations & Controls
1. MIC		Microphone: Voice receiving position.
2. RST		Reset button: Use a tool (such as a toothpick) to trigger the hidden buttons through the small hole, and the navigation can be restored to factory settings.
3. Power	ሪ	In the power-on state: Press to Mute. Press and hold for more than 1 seconds to turn off the screen.
4. Home	仚	Press to enter main menu.
5. Return	Ð	Press to back to previous.
6. Volume	4 +	Short press to increase volume.
7. Volume	∢ -	Short press to decrease volume.

HOME PAGE OPERATION

Press [\bigtriangleup] on the panel to enter the homepage.

Click the [] icon to enter the APP application interface.

Home Interface



Home Interface



Home Interface



Application Interface





Click to return to the previous page.



Click to enter the navigation interface.



Click this icon to enter the radio interface.



Click to enter the application interface; The factory app interface is divided into three pages, and you can swipe left to browse all the apps.



Click to enter the settings interface.



Click Close Screen, and click Lighting Screen again.



Click to enter the home interface.



Click to enter the screen off mode, and then arbitrarily click the screen to light the screen.



USB inserted display.



Turn on location display.



Time display.



Click to enter the background program interface, you can view the recently opened and running programs in the background.

RADIO



RDS Interface





Move up one frequency point.



Move down one frequency point.

_	

Switch bands between FM1/FM2/FM3/AM1/ AM2.



Automatically search for stations and then browse stations.



Turn on/off the ST function.



Manual search frequency.



Manual Search Radio Interface





Sound settings.



Turn off the radio and go back to the main interface.



Click to open the AF function.



Click to open the LIST of PTY stations.



Click to open the TA function.



Click to open the RDS function.

RDS Function

RDS will allow you to display information such as traffic status, radio station name and more. The unit can automatically switch to the strongest station based on the similar program.

BLUETOOTH

Bluetooth Connection Interface



Bluetooth Call



The first time pair mobile phone with AV receiver, please follow below steps:

1. Press [\triangle] on the panel to enter the homepage.

2. Click [III] to enter the Bluetooth setting interface.

3. Open the mobile phone Bluetooth to search for bluetooth device NAM5950, click for pairing connection, the mobile phone will pop up a window, according to the prompts to complete the Bluetooth connection and pairing.

4. After pairing, click the [📓] icon to automatic connection.

5. Click the [📓] icon to disconnect.

After the Bluetooth connection is successful, click

- the [] icon to enter the blue dial interface.
- During a call, tap this icon to switch between the car speaker and the mobile phone. ★ Merge calls Backspace Switching mode Recording on/off s 📞 Dial ⊲» Volume adjustment

History Call Record

🕋 Hang up



Phone Book

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C						
۱					0	X)
					(.	D
84					G	r)
FJ					2	

Bluetooth Music



After bluetooth connection, click the [] icon to enter the Bluetooth music interface.





Play

Pause 11

Play the next song

MUSIC PLAYBACK

Click to [

Music Playing Interface



VIDEO PLAYBACK

Click to [] to enter the video interface.

Video Plavina Interface



Video List Information Interface

Music List Information Interface





Click on the video in the search list

Historical playing record





Collect the list

(

Play/Pause

Refresh the list

Click to open the video list







DSP Settings Interface



Smart Bass Settings Interface



EQ And Sound Effect Settings Interface



Click to [I to enter the DSP setting interface.

Smart Bass: Smart bass settings.

Balance: Fader and banlance settings.

Delay: Time alignment settings.

Equalizer: 30 band EQ and Sound effect settings.

Loundness: Loundness settings.

Filter: HPF and LPF filter settings.

1. Click [Smart Bass] to enter the intelligent bass setting interface.

2. Slide [🗿] to turn on or off Smart bass Settings.

3. After opening, you can manually adjust the value of gain, bass and cutoff frequency. If closed, manual adjustment is not allowed.

4.Click [] to restore the defaults and automatically turn on the analog bass Settings

5. Gain adjustable range: 0~12dB

6. SUB OUT adjustable range: 0~15dB

7. SUB AFR adjustable range: 80~240Hz

1. Click [30-EQ] to enter the EQ setting interface.

2. Frequency control point: 30 EQ, click $\left[\text{ User} \right]$ to adjust freely.

3. On this interface, there are five sound effects to choose from: original sound, pop sound, rock sound, jazz sound and classical sound. The value of equalizer cannot be adjusted by itself after selection. Only "User" can be adjusted.

4.The adjustable values of each equalizer: -12 ~12.

Fader And Banlance Settings Interface



1. Click [Balance] to enter the gradient and Balance Settings screen.

2. Slide [.] to turn the power amplifier on or off.

3.Click [$\fbox{1}$] to restore the default, which is the center of the horn.

4. Speaker sound position can be set in the driver's seat, passenger seat, backseat, as well as the middle position, you can click [
] to set, or directly drag [] to set.

Loundness Settings Interface



Time Alignment Settings Interface



1. Click [Loudness] to enter the loudness setting interface.

2. Slide [🌒] to turn on or off divider Settings.

3. After this function is enabled, the low frequency point, low frequency gain, high frequency point and high frequency gain can be manually adjusted. If closed, manual adjustment is not allowed.

4. Click [] to restore the default value and automatic turn on the setting of frequency division adjustment

- 5. Adjustable range of low frequency: 50~1000Hz.
- 6. Low frequency gain adjustable range: 0~12dB.
- 7. Adjustable range of High frequency: 2000~10000Hz.
- 8. High frequency gain adjustable range: 0~12dB.

1. Click [Sound field positioning] to enter the speaker position setting interface.

2. Click the seat icon below to set the corresponding hom position.

3.Click []] to enter the delay setting interface.

4.On the delay setting screen, tap [-] or [+] to adjust the delay time.

5.The delay unit has two displays: "ms" and "cm".

6.Adjustable range: 0~20ms, 0~680cm.

Delay Diagram



HPF And LPF Filter Settings Interface



Delay operation steps:

 Measure the distance of each speaker to determine the value of the listening bit. If you specify the distance from the center of the currently set listening position to each speaker, the delay time will be automatically calculated and set.

2. Determines the center of the currently set listening position as the reference point.

3. Measure the distance from the reference point to the horn.

4. Calculate the distance difference between the farthest speaker and the others.

Set the DTA value for each speaker step by step.
 Adjust the gain of a single speaker.

Note: First confirm that the EQ is the standard mode, the listening position, output volume, and output crossover are the factory defaults. Balance adjustment of the left and right channels to output separately, and confirm the consistency of the tweeter and midrange speakers. The left and right channels must be consistent, otherwise the delay it was chaotic.

1. Click [Slope/band] to enter the interface for setting HPF and LPF filters.

2. Swipe [I to turn HPF and LPF Settings on or off.

3.After opening, click [-] or [+] to adjust the value of the front and rear horn, or drag the curve [

4.**HPF can tone value:** 20Hz, 31Hz, 50Hz, 63Hz, 80Hz, 125Hz, 180Hz, 250Hz, 325Hz, 410Hz, 500Hz.

5.**LPF can tone value:** 1.25khz, 1.6khz, 2khz, 2.5khz, 3.15khz, 4khz, 5kh, 6.3khz, 8khz, 10khz, 20khz.

MOBILE LINK

Mobile phone connection interface



Click to [

- Activation status display.
- Click this icon to open the setting interface.
- Support iPhone WIFI connection.
- Support Android USB connection.

Connection setting interface



In the connection setting interface, you can set the default automatic connection function on or off, automatic hide function on or off, wireless automatic connection function on or off, visual position left or right functions.

Connection Diagram



Android USB Connection

Enter the AutoLink APP interface connect the data cable of the mobile phone with the USB cable of the car.To complete the projection screen connection.

Iphone WiFi Connection

1. If the mobile phone does not open the wireless network, the following dialog will pop up, click (open the wireless LAN and use CarPlay car), you can connect successfully.

2. If the mobile phone does not open the wireless network, the following dialog will pop up, click (open the wireless LAN and use CarPlay car), you can connect successfully.

NAVIGATION

1. Click to [

2. Navigational map data: Navigation map data can be copied to local internal storage, and some navigation applications support placing data on external USB drives. Deletingand copying can be done using a file managementapplication.

3. Navigation application set: To install the navigation application APK privately, please install the application APK correctly first, and the application interface will generate the corresponding APK icon; The default navigation settings \rightarrow Car and Machine Settings \rightarrow Navigation Settings \rightarrow Navigation Program Selection". Users can start navigation by clicking the icon on the main interface.

Navigation Interface



Camera wiring installation and setting

Camera Wiring Installation Diagram



Installation steps of reversing image wiring:

Back car mirror type setting:

1. Click [📓] to enter the setting interface.

2. Click [🔟] to enter the Car Infotainment interface.

3. Click [🙆] to enter the About Device interface.

4. Click [] enter password (1948) to enter the factory setting interface.

5. Click [Backcar Setup] to enter the Backcar Setup interface.

6. Back car mirror type: Select the Settings based on the type of lens installed. Save the Settings and restart the Settings to take effect.

1. Connect the plug of the reversing signal wire to the main engine, remove the left side panel, pass the camera extension wire through the driving position in the central control position, and then put the wire through the trunk with the waterproofing sealant on the side of the lower car to the side of the rear cockpit, and use the traction wire to cross the trunk.

2. Remove the backing box door liner, the camera device is above the license plate, the camera cable into the trunk and the extension wire docking, docking needs to be wrapped with electrical tape.

3. The positive pole of the power supply of the camera is connected with the positive pole of the reverse headlight, and the negative pole is connected with the reverse headlight. Please pay attention to the need to wrap it with electrica tape.

GPS ANTENNA CABLING INSTALLATION

GPS Antenna Wiring Diagram



Notice:

1. The GPS antenna can be mounted inside the vehicle, such as on an instrument platform, or outside the vehicle, such as on the roof.

2. GPS antennas must have an open "field of view" facing the sky. If the vehicle glass is equipped with explosion proof film, heat insulation film, may greatly reduce the strength of GPS antenna to receive satellite signals; In this case, it is recommended toinstall the GPS antenna on the outside of the vehicle.

1.Before taping the GPS antenna, be sure to clean the adhesive area with an appropriate oil-soluble cleaner. After cleaning, tear off the paper on the back, place the GPS antenna and press hard.

2. Remove the side panel and run the cable through the storage room until you reach the main console, making sure the GPS cable and the original cable are securely tied.

3.Connect the GPS antenna plug to the host.

GPS antenna installation steps:

SETTING

Setting Interface



On the Settings interface, can for network internet Settings, car infotainment settings, view apply and notification, view storage information, view memory information, view account information, set google information, system settings, view information about phone.

Common Settings

命 *	0 17:59 - 💭 🗂 🕤
← Common	
Sleep mode	on >
AssistiveTouch	OFF
Reverse Volume Suppression	Weak >
Boot Logo	
Reset All Settings	×

The following functions can be set in the general setting interface:

- 1. Set enable or disable the sleep mode.
- 2. Set assistive touch on or off.
- 3. Set the strength of reversing volume suppression.
- 4. Set the display picture of the boot screen.
- 5. Restore factory Settings.

Display Settings Interface



Wifi Connection



1. Click [🛜] to enter Network & internet setting interface.

2. Click to [🛜] select enable as [💽].

3. Search for the Wi-Fi hotspot you want. Insert the password and click Connect to complete the Wi-Fi connection.

Note: You can turn on or off hotspot sharing and view traffic usage in these interfaces. Turn on or turn off flight mode.

Car Settings Interface

ŵ	•	17:59	-0-	Ē	•
٥	Common				
0	Display				
0	Sound				
0	Video				
0	Navigation				
0	Bluetooth				

In the car infotainment settings, can select common settings, display settings, sound settings, video settings, navigation settings, bluetooth settings, swc learning, and view device information from the car.

1. In display Settings, can adjust the display brightness of the background according to the different time of day and night Settings.

2. Click [Auto Mode] and select [NO] to enable or disable the automatic brightness adjustment function.

3. Click [Key Light Color] to set the panel light color.

SETTING

Volume Setting Interface



In the volume Settings, can set the media volume , bluetooth volume, ring volume, and system volume.

System Settings Interface



1. Select language input Settings, Click the selected language to complete the Settings based on the local language.

2. Date and time Settings: Optional use the time provided by the network, use the time provided by GPS, off (select off can be set manually).

3. Automatic time zone calibration: Turn on to automatically calibrate the time zone. Turn off to manually select the time zone.

4. Use the default language switch Settings: When there is a network, enable the switch to automatic switch the language based on the region. Disable the switch to manually switch the language.

5. Use the 24-hour setting: On/off time display is 24 hours, close/off time display is 12 hours.

Steering Wheel Learning



Video Options interface

企 +	e 1638 🔅 🗇 🍮
€ Video	
Disable Video In Motion	OFF 🌨
Reversing Warning Line	0N 🥌

In the video options, you can set the direct dynamic video, reverse track line, reverse warning line, air conditioning display, front camera on or off.

Note:

Back-up warning line. Some models may not have a back-up warning line on their cameras. By enabling this option, users can see the distance of the warning line on the display screen when backing up.

CAN Type Settings

<u>ه</u> ۹			8	10:17	-\$.	۵	•
					Impor		Save
CAN Type							
Swap F-Door	C Normal 3	Xp					
Swap B-Door	K Normal >	Rzc					
Thunk	< Normal 3	XDS					
Hood	C Normal >	Hiwona					
AV Key	2 Normal 2	Da .					
Inside Temp	< Normal S						
Temp Unit	K 10 👂	1					
AVM Icon	< dff 2						
Outside Temp	< 0n 5						

Click [] to enter the setting interface.
 Click [] to enter the Car Infotainment interface.

3. Click [] to enter the About Device interface. 4. Click [] enter password (1948) to enter the factory setting interface.

5. Click "CAN Type" to enter CAN type selection page is displayed.

6. Select Settings based on the model and protocol box information, and click Save to restart the Settings.

Follow these steps to set the functions of the control buttons on the steering wheel:

1. To delete all, select"CLEARALD".

2. Touch the control button corresponding to the steering wheel to learn on the display screen (blinking waiting to learn state).

 press the corresponding function of the corresponding control button on the steering wheel.
 When the control button changes to blue colour

that means the setting is successful.

5. Repeat step 2 - 4 to complete all the control button setting.

TROUBLESHOOTING

Problem	Cause	Correct action			
	Check fuse	Change fuse same as the old one			
Can not power on	Some factors cause MPU wrong operation	Press RET button on the panel by penpoint, then, power on			
Radio reception is not good					
GPS signal is weak	Weak signal	Move the car to another place, then research			
4G signal is poor					
Can not watch image during driving	It's not allowed to watch image during driving	Park the car in a safe place, put the car stall in "P" position, pull up the hand brake, parking brake wire must be grounded.			
	Not enough storage space	Uninstall APK or clear FLASH space			
Siow response	Open too many APP	Click [] in the upper left corner to close some apps			

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.







SPECIFICATION

General

Operation Voltage: 14.4V(10.5-16V) Installation Size: Thickness 44mm Operating Temperature: -10°C - +60°C Storage Temperature: -20°C - +70°C

System

Operating System: NK 10.0 DDR: 4GB / 8GB Flash: 64GB / 128GB

Radio

FM Frequency Range: 87.5-108.0MHz AM Frequency Range: 522-1620KHZ

Bluetooth

Communication System: BT 5.0 Max Communication Range: 5m Frequency Band: 2.4GHz

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

Audio

Max Power: 4 x 50W Pre-Output: 4.1CH Pre-output Impedance: ≤600Ω Speakers Impedance: 4-8Ω

TFT Screen Item

Size: 9" / 10" Display Resolution: 700 x 1280 Contrast Ratio: 500 Brightness: 500nit

Video

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

Video Format H264/MP4/MOV/AVI/MKV/FLV

Radio Format MP3/WAV/AMR/APE/AAC/FLAC

Note:

Specification and design; functions and features; unit illumination; colour and display segment are 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.



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