# Nakamichi

## NAM1630
### User Manual



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## 7" 2-DIN AV RECEIVER

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nakamichicaraudio.com    nakamichi.global    nakamichi.caraudio

# CONTENTS

## 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 airbag .

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

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

Be sure to disconnect the cable from the negative batt -ery terminal wile installation.

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

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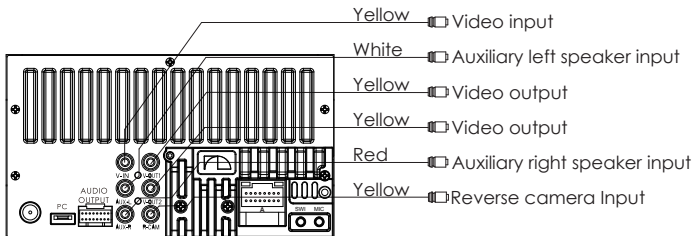
# FEATURES

- 2-Din receiver with capacitive panel
- 7-inch 1024 x 600 HD display
- Support iOS phone mirrorlink
- Support android phone mirrorlink
- Built-in professional DSP
- Support Virtual bass
- Support time alignment
- Built-in 14 band EQ,Preset 8 sound effects
- Support lossless music
- Support 1080P video playback
- Support MP3/WMA/AAC/FLAC audio playback
- Support H264/WMV/DIVX/FLV video playback
- Built-in Bluetooth
- Support Bluetooth music playback
- Built-in multi-color lights
- Support subwoofer output
- Support subwoofer volume control
- 2 Video output
- 2 Audio output
- 4V Pre-output
- 3V Subwoofer output
- 1 Video input,2 Audio input
- Built-in PAC jack
- Maximum power:4x50W
- Support extermal microphone
- High sensitivity FM/AM, support RDS
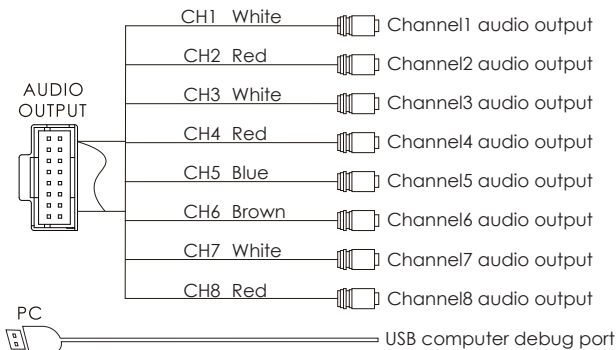- Support steering wheel button learning

## ACCESSORY LIST

1. Power cable ----------------1 PC
2. Remote controller ----------1 PC
3. User manual ----------------1 PC

4. Metal Card holder-----------1 PC
5. Screw:5x8--------------------8PCS
6. 16P Expansion ---————--- 1 PC

## WIRE CONNECTION



| Yellow | Video input |
| White | Auxiliary left speaker input |
| Yellow | Video output |
| Yellow | Video output |
| Red | Auxiliary right speaker input |
| Yellow | Reverse camera Input |

| | | 1 | Black | GND | 5 | White/Black | FR- | 9 | Yellow | B+ | 13 | Green/Black | RL- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | A | 2 | Red | ACC | 6 | Grey | FR+ | 10 | Orange | ILL | 14 | Green | RL+ |
| | | 3 | Purple/White | Reverse | 7 | Grey/Black | FL- | 11 | Brown/Black | SWC2 | 15 | Purple | RR+ |
| | | 4 | Brown | SWC1 | 8 | White | FL+ | 12 | Blue | ANT | 16 | Purple/Black | RR- |

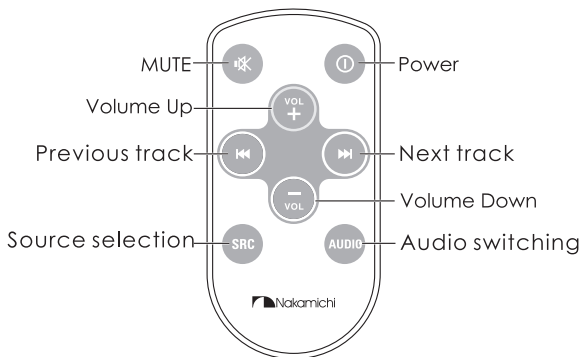| AUDIO OUTPUT | | |
|---|---|---|
| CH1 White | | Channel1 audio output |
| CH2 Red | | Channel2 audio output |
| CH3 White | | Channel3 audio output |
| CH4 Red | | Channel4 audio output |
| CH5 Blue | | Channel5 audio output |
| CH6 Brown | | Channel6 audio output |
| CH7 White | | Channel7 audio output |
| CH8 Red | | Channel8 audio output |

PC

USB computer debug port

## PANEL OPERATION



1. Microphone:Voice receiving position
2. Remote control windows
3. Volume up
4. Volume down
5. Power
6. Home page
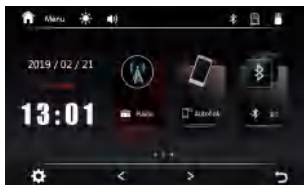7. Sound switch
8. Reset Key
9. USB interface

## REMOTE CONTROL OPERATION



MUTE

Power

Volume Up

Previous track

Next track

Volume Down

Source selection

Audio switching

## HOME PAGE OPERATION

Press [ ☐ ] on the panel to enter the homepage, the homepage is displayed as follows:







LCD Brightness setting

Current volume

Bluetooth connected

SD card inserted

USB inserted

Setting

Page

Return

Radio

Click to enter the mobile phone connection interface

Bluetooth

USB playback

Aux input

SD Card playback

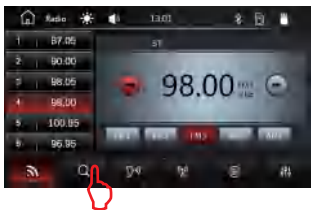Steering wheel learning

Setup

DSP setting

## Radio Interface



◄◄ Backward
►► Forward
🔊 Band selection
🔍 Automatic search
🎧 Stereo switch
🎙 DX/LOC switch
⊞ Frequency input
🎚 DSP setting
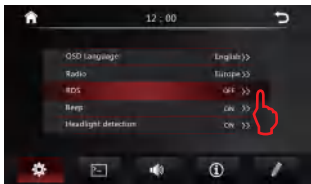
## Radio Area Selection



1. Press [ ☐ ] to enter the homepage.
2. Click [ ⚙ ] to enter setting interface.
3. Click [ ⚙ ] to select [ Radio Area ].
4. Select the corresponding radio area.

## Automatic Search



Press and hold the [🔍]for more than 2 seconds,the radio stations that have been searched will be automatically saved the number list below.
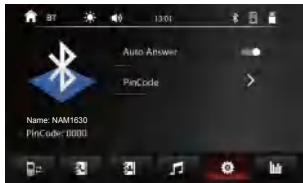
## Rds Function



1. Press [ ☐ ] to enter the homepage.
2. Click [ ⚙ ] to enter setting interface.
3. Click [ ⚙ ] to select [RDS]open.
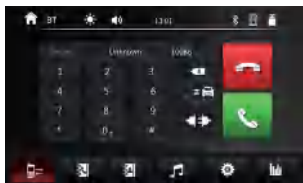
# BLUETOOTH OPERATION

## Bluetooth Pairing



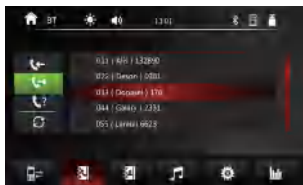The first time pair mobile phone with AV receiver, please follow below steps:

1. Press [ ⬚ ] to enter the homepage.
2. Click [ BT ] to enter the Bluetooth interface.
3. Click [ ⚙ ] to enter the Bluetooth pairing.
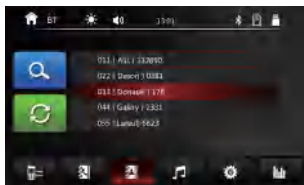4. Turn on the phone's Bluetooth to search: Bluetooth device: NAM1630 .

## Call Interface



🔢 Dialpad
📋 History call record
📇 Phone book
🎵 Bluetooth Music
⚙ Bluetooth Pairing

📞 Backspace
📵 Hang up
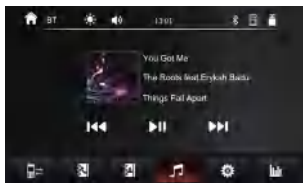📞 Answer
🔊 Voice switch
🔀 Disconnect / Link

## Call Record



## Phone Book



## Bluetooth Music Playback



1. Press [ ⬚ ] to enter the homepage.
2. Click [ BT ] to enter the Bluetooth interface.
3. Click [ 🎵 ] to enter the bluetooth music playback.

⏮ Previous track        ⏯ Play/Pause
⏭ Next track

## PHONE MIRROR LINK OPERATION

Remarks:

1.Before the mirrorlink operation, the Bluetooth must be paired and con
   -nected. When the Bluetooth is not connected, there will be no sound.

2.Only the front USB supports miorrlink.

3.Press [ ▢ ] to enter the homepage .

4.Click [ Autolink ] to enter the phone mirrorlink interface.

### Mirrorlink Interface



### Adroid phone Mirrorlink

1.Scan QR code to download
   the Autolink APP(First connection).
2.Please connect the phone to
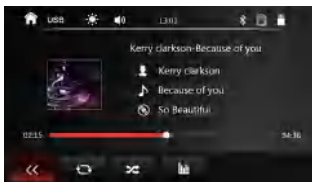   the headunit via USB cable.
3.Please click trust on your phone.

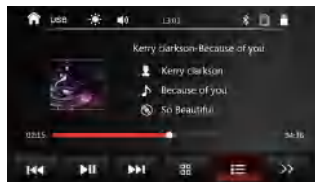### Ios Phone Mirrorlink

1.Please connect the phone to
   the head-unit via USB cable.
2.Please click trust on your phone.

Remark:

Some mobile phones need to turn on the USB debugging mode.

## MUSIC PLAYBACK




🔣 Previous track    🔣 Folder directory    🔣 Repeat playback

🔣 Play/Pause    🔣 Playlist    🔣 Random playback

🔣 Next track    ◁◁ ▷▷ Page    🔣 DSP Settings

## MULTIMEDIA OPERATION

### Video Playback
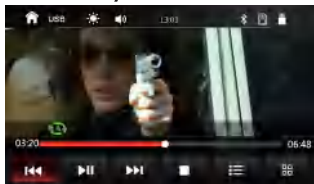



Previous Video

Play/Pause

Next Video

Folder directory

Playlist

Repeat playback

Zoom in/zoom out

Audio track
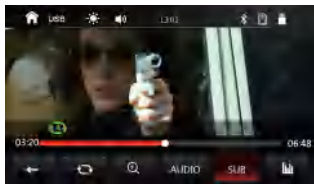
Subtitles

DSP Settings

Page
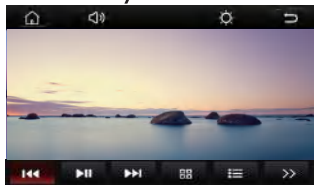
### Picture Playback




Previous Picture

Play/Pause

Next Picture

Folder directory

Playlist

Repeat playback

Zoom in/zoom out

Rotate

DSP Settings

Page
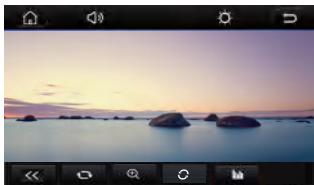
# DSP SETTING

1. Press [ ☐ ] to enter the homepage.

2. Click [ DSP ] to enter the DSP professional setting interface.



 :Delay Settings

 :EQ and Sound effect settings

 :Bass EQ

 :Focus Adjustment

 :DSP Professional Settings

 :DSP Reset

## DSP proessional instruction:

1. Click [ CH1~CH8 ] to switch the corresponding channel. There are 8 channels in total.

2. Click [ << ] to display " CH1~CH4 " channel click [ >> ] to display " CH5~CH8 " channel.

3. In the professional setting interface, can set 5.1 channel, two frequency division,three frequency division, connection and phase of the opposite phase Settings.

4. Click [ LINK ] to connect two adjacent channels.

5. Click [ 180° ] to select positive or inverse phase Settings.

6. For each channel, can set the filter type of high-pass and low-pass slope, can adjust the frequency and volume as required.

7. Select link_ril, bessel, butt_W filter type, click [ < ] or [ > ] can switch.

8. The adjustable frequency range is 0~20600Hz, click [ < ] or [ > ] it can be adjusted up or down.

9. Slope can choose: 6 db, 12 db, 18 db, db, 30 db, db, 42 db, 48 db and OFF, click [ < ] or [ > ] can toggle selection.

10. Click [ Mute ] to turn on the Mute mode, and click again to turn off the Mute mode, click on the [ < ] or [ > ] can adjust the volume, or slide the volume display lever left and right to adjust the volume. The adjustable volume ranges from 0 ~ 60.

## DSP SETTING

**Note:** When 5.1 channels, 2 frequencies, or 3 are selected on the of DSP output frequency division, please install speaker according to the corresponding location of speaker distribution, and note that the audio output of RCA line defines socket docking (for the definition of RCA line , please refer to "AUDIO OUTPUT: Extension" of line connection in the manual).

### 5.1 Channel



### 2-Way



### 3-Way
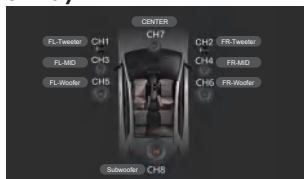


**Example:** On the interface of DSP output frequency division, select the three-frequency division, and press to install the speaker according to the distribution map of three-frequency division, and set the position of each speaker . The output audio is different. When connecting the RCA line interface, note meaning see the label content of the 16-pin RCA line interface 3-way to define the output. Verify that the loudspeaker output is consistent with the RCA interface definition before interconnecting with the loudspeaker.

## DSP SETTING

### Position Settings
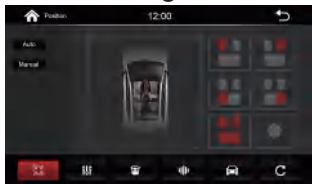
Click [ ⚙ ] to enter the auto delay settings interface.

Click the seat icon on the right to set the corresponding horn position.

### Delay Settings

Click [ Manual ] to enter the manual delay settings interface.

Click [-] or [+] corresponding to the horn to set the corresponding horn delay time.
**Delay range:**
Ms range: 0.00~20.00, Cm range: 0~692.
**Unit switch:**
Click [MS] to switch milliseconds.
Click [CM] to switch CM units.

### Delay Horn Diagram

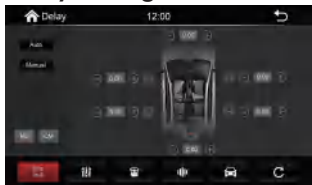**Note:** First confirm that the EQ is the standard mode, the listening position, output volume, and output crossover are the factory defaults. Balance adjustment of the left and right channels to output separately, and confirm the consistency of the tweeter and midrange speakers. The left and right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

**Measure the distance of each speaker:**

1. 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 is calculated and set automatically.

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.

5. Set the DTA value for each speaker step by step.

6. Adjust the gain of a single speaker.

## EQ And Sound Effect Settings



Click [ ▦ ] to enter EQ and sound Settings screen.

EQ equalizer can choose user1, user2, flat, bass, jazz, pop, classic, rock 8 sound modes.

**Note:**

1. Choose flat, bass, jazz, pop, classic, rock sound, will not be able to change the corresponding frequency, gain and Q value.

2. Select user 1 or user 2 to adjust the frequency, gain, and Q values.

**EQ operation instructions:**

1. Click [ CH1~CH8 ] to switch the corresponding channel, There are 8 channels in total.

2. EQ curve adjustment of corresponding output channel (Band, Freq, Gain and Q values) .

3. BAND: This machine has a total of 14 bands, the numbers [ 1-14 ] each represent a band, click [ << ] in this interface to display "1-7" band, click [ >> ] to display "8-14" band.

4. Freq: Select the frequency of the corresponding band of the output channel, and then click [+] or [-] to increase or decrease the selected frequency. Adjustable frequency range: 0~20600Hz.

5. Gain：Select the gain of the corresponding band of the output channel, and then point [+] or [-] to increase or decrease the gain value. The gain value can be adjusted from -20.0 ~ 20.0.

6. Q value: Select the Q value of the corresponding band of the output channel, and click [+] or [-] to increase or decrease the Q value. Q value range: 0.404 ~ 28.852 .
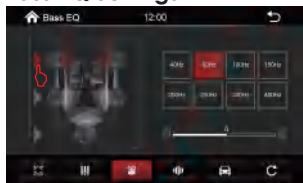
## DSP SETTING

### Focus Adjustment
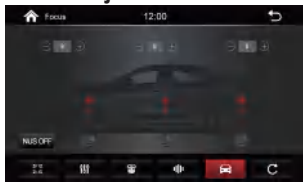


Click [ 🚗 🚙 ] to enter the audio and video setting interface.

Click [ NUS OFF ] to turn NUS on or OFF.

In this interface can adjust the main channel sound image, central sound image, surround sound image.

The adjustment range is 0~16, click [ - ] or [ + ] to adjust.

### Bass EQ Settings



Click [ 🔧 ] to enter the bass EQ setting interface.

Select the speaker you want to adjust and click the [ ▶ ] icon corresponding to the speaker to adjust the frequency and sound level of the speaker.

Bass EQ frequencies can choose: 40Hz, 60Hz, 100Hz, 150Hz, 200Hz, 250Hz, 300Hz, 400Hz.

The value of bass EQ level ranges from -10~10. Click [-] or [+] to adjust, or slide the display bar left and right to adjust.

## PC SOFTWARE OPERATION INTRODUCTION
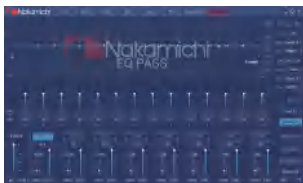


(PC can be downloaded from the official website(Http://www.nakamichicaraudio.com,Downloads)

Computer Configuration Requirements: Scren resolution higer than 1280x768, otherwise the software UI is incomplete, only suitable for windows operation system laptop, desktop and pades.

## PC PROFESSIONAL DEBUGGING

## Main Menu Edit Section

Main features:

Save,Memory,Option,Mixer, Audio,NUS, SeakerNull and unconnected operations.
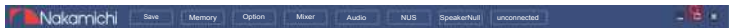


1. Click "Save" to save the currently set frequency parameters

2. Click on the "Memory" popup window and select Load machine Preset Scene or Save as Preset Scene or Load PC Presets File or Save PC Presets File or Load Machine Scene and Save Machine Scene.

> Load PC Presets File
> Save PC Presets File

3. Click "Option" to select Chinese and English switch, noise door, about and restore factory Settings.

> 简体中文
> 繁體中文
> ✓ English
> Noise Gate
> About(A)
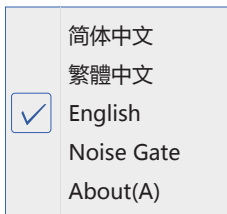
4. Click " Mixer " to enter the mixing interface, where the corresponding mixing input source can be entered by switching. The high level interface is as follows.



5. Click on the "Audio " window to select flat, bass, classical, jazz, pop and rock sounds.

> ✓ FLAT
> BASS
> CLASSCI
> JAZZ
> POP
> ROCK
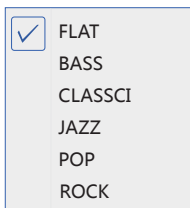
6. Click the "NUS" pop-up window to open/close NUS SW and CEN SW; Adjustable main channel, middle channel, surround channel.



7. Click the "speakerNull" pop-up window, you can select two frequency, three frequency, 5.1 channel.



2-way

3-way

5.1

8. Click the "Unconnected" button to connect to the PC.

Unconnected ⇨ Connected

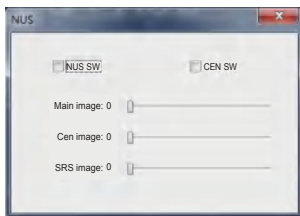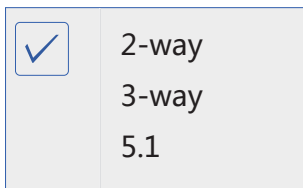### Channel Equalizer Editing Area

Channel equalizer editor area Main function configuration:

Current output channel equalization design, 14 frequency band equalization adjustable frequency, Q value (response bandwidth), gain ( increase or decrease the frequency response amplitude near the frequency point).



### Channel Diveder Editing Area
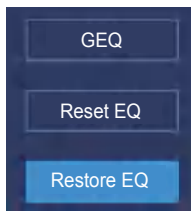
Main function Settings of channel distributor editing area: setting of channel high and low pass filter. Tunable filter type, frequency point and Q value (gradient or slope). When the slope is 6dB/Oct, the type is butter-w.

| High-pass filter | | Low-pass filter |
|---|---|---|
| Freq: OFF | | Freq: 20000Hz |
| Type: butter_w ▾ | | Type: butter_w ▾ |
| Oct: 18db/Oct ▾ | | Oct: 18db/Oct ▾ |

## PC PROFESSIONAL DEBUGGING



1. " GEQ " button: lick to select graphie ealization or parametic equalization.

2. "Reset EQ" button: It is used to restore the parameters ofthe 14-band equalizer to the original pass-through mode (thefrequency of the equalizer, the value and the gain are restored to the initial value).

3. "Restore EQ" button: Switch between the currently designed equalizer state parameters and the pass - through mode (the gain of all equalization points is restored to OdB, the frequency and value are unchanged).

## Output Channel Adjustment Area

Output channel adjustment region, positive and negative phase of each channel. volume adjustment, mute, joint adjustment, etc.



1. Main volume adjust zone

Click the speaker button to mute the main volume.

Adjustment Range: ON/OFF,-59dB~6dB.

2. Sound adjustment: slid the scroll up and down to adjust the sound level of the channel, or input the value or scroll the mouse wheel in the sound input box to adjustthe sound size.Click the horn button to switch between mute.

3. Positive phase adjustment: Click [ 0° ] or [ 180° ] to switch between positive phase and reverse phase.

4. Delay: set the delay value by scrolling the mouse wheel in the delay input box,orenter the value to set the delay value.

5. Reset output configuration: Customizable for channel type.

6. Lock output type: Locking for the current output channel type is not customizable.

7. Out left and right joint adjustment: The joint of the left and right channel data of the output channel can be copied from left right,or from right to left.
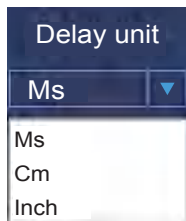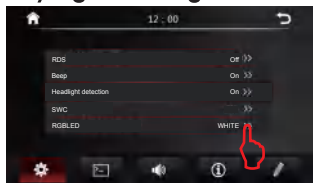


8. "Delay Unit" button: Select the delay unit by clicking the left or right arrow, availablein milliseconds, centimeters, and inches.
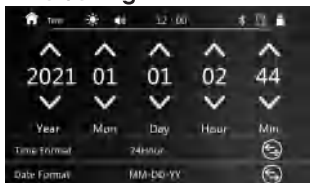
## SETTINGS

1. Press [ ⬜ ] to enter the homepage.

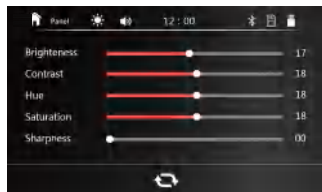2. Click [ ⚙ ] to enter setting interface.

### Key Lights Settings



### Time Setting



### Dislay Settings

1. Press [ ⬜ ] to enter the homepage.
2. Click [ 🔲 ] to enter the display setting interface.





### Steering Wheel Learning



1. Click [SWC] to enter the steering wheel learning interface.
2. Click [ SWI ], Display [SWC].
3. Click [ 🔲 ]  Start Settings.
4. Press and hold the steering wheel control button for 3s.
5. Click the button function on the screen. The learning success button turns gray.
6. Click [ 🔲 ] to enter the save.

# TROUBLE SHOOTING

| 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 switch is turned off, all the information of setting 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 |

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.
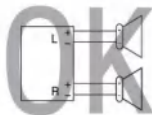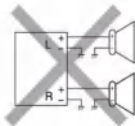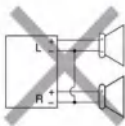
# SPECIFICATION

## General

Operation Voltage:
14.4V(10.5-16V)
Panel Installation Size:
178 x 100mm
170 x 96mm
Operationg temperature:
10℃- +60℃
Storage Temperature:
20℃- +70℃
Net Weight: 920 g

## TFT Screen Item

Size: 7''
Display Resolution:
1024 x 600
Contrast ratio: 400
Brightness:400nit

## Bluetooth

Communication System:
BT4.0+EDR
Frequency Band: 2.4GHz
Max Range: 5m

## Audio

Max Power: 4x50w
Pre-output impedance: ≤600Ω
Speakers impedance: 4-8Ω

## Video

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

## Video Format

H264/ MP4/ AVI/ MKV/ FLV

## Audio Format

MP3/APE/AAC/FLAC

## USB Interface

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

## Radio

FM Frequency: 87.5-108.0MHZ
AM Frequency: 522-1620KHZ

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