





**SMART CAR AUDIO NAVIGATION
ENTERTAINMENT SYSTEM**

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System parameter

Common:

Rated voltage: DC12V (DC9.0 V~DC 16V allowed)

Grounding system: Negative polarity

Maximum current: 10A

Audio:

Maximum output power: 50W*4

Load impedance: 4Ω

Bass: ±7dB(100Hz)

Treble: ±7dB(10kHz)

DVD player:

ESP: DVD---4seconds, VCD---10seconds

SNR: 85dB(A)

Frequency characteristic: 20~20,000Hz

RCA Audio output: 1.8V max (adjustable)

RCA Video output: 1V p-p

Electric antenna control: 12V (500mA)

FM

Frequency range: 87.5~108MHz

Effective sensitivity: 10dB

SNR: 60dB

THD: < 1%(1KHz)

Frequency response: 30-15, 000Hz

Stereo crosstalk: 35dB(1KHz)

AM

Frequency range: 522-1620MHz

Effective sensitivity: 30dB

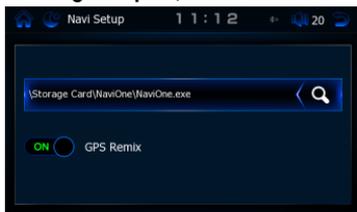
Troubleshooting

Phenomenon	Reasons	Solutions
Not operating	Fuse of machine power supply and auto vehicle battery is burnt; Voltage of power supply is overloaded; Automatic protection system avoids fault due to illegal operation	Change for fuse of the correct types; Adjust voltage; Reset the system by pressing the Reset key
No or low sound	Disconnction; Volume setting is low volume; Loudspeaker fault Big deviation of volume balance setting; Earthing in loudspeaker conection	Check the connection; increase volume Adjust the volume balance setting to middle place; Keep insulation of loudspeaker connection
Remote control doesn't work	Battery is out of power; Battery is not placed correctly	Change new battery; Reinstall battery;
Inferior quality of sound; Distortion of sound	Inferior disc is prohibited; Loudspeaker does not match impedance of the machine Speaker fault	Use genuine discs; Change a matched loudspeaker; Check the connection of loudspeaker.
Machine reset by itself when it is shut down	Connection of ACC and B+ is not correct.	Check and reconnect ACC and B+
No image	Connection of brake wire is not correct; Not braking state.	Check brake wire and connect them corectly; Keep braking state after the car is placed safely.
Unstable output of image	DVD does not correspond with the present system video setting; Video signal line is not connected correctly.	Adjust system video setting; Check and replace video signal line.
Image stretching or compressing	Incorrect ratio settings of icons	Use correct ratio settings of icons
Weak signal	Auto antenna does not reach out completely LOC function is under working state. Adverse antenna grounding;antenna is broken	Connect auto antenna line correctly Close LCC function
Break-down during playing	Disc is stained or scratched; Documents or records are damaged.	Clean or replace the disc; Replace the disc or choose stored file.
Not into the disc	The disc is available in the machine.	Eject the disc and put into a new one.
Disc does not play	Disc is scratched; Disc is put in the opposite side; Laser head is stained	Change a good disc; put the disc up into the laser and then wash the disc and laser.
No repeat and search function when VCD is working	PBC function is under working state.	Close PBC function

6. Path planning is for reference only. The road conditions may be adjusted according to the local traffic situation, or because of some factors such as road construction, government and commercial activities. Please be sure to follow the current road situation and other traffic rules. If the road situation is different from display display, please judge which way to take.

★Detailed instructions of GPS

■ Set navigation path. Click "Set-up" in the home page to enter into setting interface, then click "Navi set" to set the Navigation path, shown as below:



■ After navigation path setup, return to the main interface, click navigation icon to turn to navigation interface, then the system will turn to navigation interface and start running the navigation software, shown as below picture:

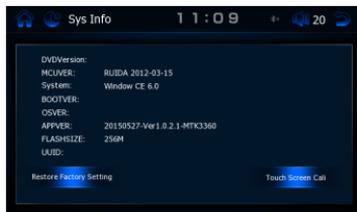


Radio interface

Radio menu, this product is built-in high quality AM/FM/RDS radio receiver, which supports AM/FM auto search function, frequency display, etc.



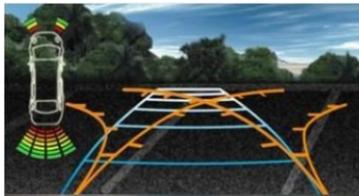
1. ---Sound button. When it shows , you can adjust the volume; Press this button, the icon will be changed to , which is mute state.
2. ---Short press this button to upward adjust the station gradually; Long press this button to upward search the station semi-automatically.
3. --- Short press this button to downward adjust the station gradually; Long press this button to downward search the station semi-automatically.
4. **BAND**--- Press this button to switch radio bands.
5. **Scan**--- Short press this button to scan the stations in prestored district; Long press this button to automatically search station and put the searched stations into the prestored district orderly according to signal strength.
6. **ST**--- Single track. In FM band, press this button to switch between ST and MONO. The



User friendly

★ Visual parking system

When back-up the car, switch to the reverse gear, the dvd unit will automatically switch to Camera input mode; if a car camera already installed on the back, the screen will show the picture from the camera to help you reverse the car.



★ Hand brake testing

Connect hand brake wire between dvd unit and car hand brake to activate parking testing function, then it will show video signal on the dvd screen only when the car is parked. If the passenger wants to watch dvd during driving, you can turn off this hand brake testing function, however it is not suggested to do so.

★ Car headlight testing

Connect lamp wire to car headlight wire, when turning on car headlight, the screen brightness will be automatically reduced.

★ Off-screen function

Driving in the evening, for safety purpose, short press TUNE button to turn off the screen, while the dvd unit still keeps working and you can listen to the audio; press TUNE again or click the touch screen to turn on the screen again.

Remarks: there are some models which have no TUNE button, the user can enter into backlight setting to adjust it.

★ Telephone mute

Connect telephone mute wire to car telephone signal wire, the dvd unit will be mute when the call comes in.

When there is a disc in the device, press MODE or click DVD icon in the main interface, it will turn to disc display menu. If the disc is stucked or cannot be suctioned, please longly press  exit button to exit the disc by the strong hand.



★Detailed operation

When playing disc, if no operation within a certain time, both upper and lower menu will disappear and it will be full screen display. Touch the screen, the menu will come out again.

Bluetooth

This device has bluetooth and hand free function. If your mobile has bluetooth function, it can set up point-to-point connection with this device. To make and receive calls as well as play music are achievable on the screen.

★ Pairing

Press Bluetooth icon in main interface to switch to bluetooth interface.

Click "Pairing", then "pairing" will come out

2. Whilst open the phone's bluetooth device, and search for new pairing. When phone search out the device bluetooth, that is the name of native bluetooth device, select this device and connect it.

3. Input a password(default password 0000), the phone will Pair with the device automatically.

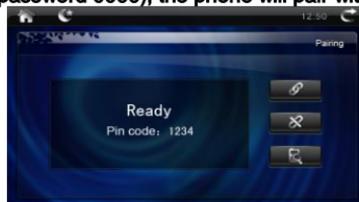
1.

★ Bluetooth operation

1. Press 'Dial' to enter bluetooth phone call interface, shown as below picture:



2. Pairing. Enter into bluetooth interface, then touch, "Phone Pairing" will come out. Whilst open the phone's bluetooth device, and search for new pairing. When phone search out the device bluetooth, that is the name of native bluetooth device, select this device and connect it. Input a password(default password 0000), the phone will pair with the device automatically.



3. Make a call

Enter the phone number by the number key-press in bluetooth interface. Click dialing key to make a call. Or select the phone number from missed calls, received calls, dialed calls list and then click dialing key to make a call.



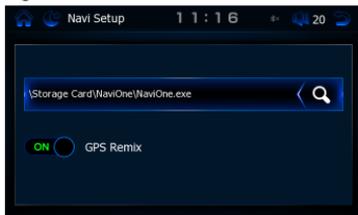
4. Answer a call

When this device is on, if a call is in, the system will automatically switch to bluetooth and hands free mode interface. If bluetooth setting of system menu is Auto Answer Mode, the system will answer a call automatically. If setting is Manual Answer Mode, click dialing key to answer a call. Click hang up key to end the call. While calling, users can click hang up key to end the call.

5. Play phone's music

★Navi set

1.GPS navigation path setting.



2.Click system setting, then click “” to enter into navigation routing menu to select correct routing, in order to run the map.Remarks: only when the correct navigation map routing is selected, can you run theGPS navigation function.



3. Brake wire testing

Click to select it, you can test the hand brake wire during driving, this wire is to avoid the driver to watch dvd during driving, which is hazardous, and it can cause severe injury.

★Time setting

It includes time setting and date setting, the user can select either 12 hour or24 hour system. Click it and input the digit,then click “OK”.



★ Sound setting

Here the user can adjust tweeter, woofer, front, rear, left, right channel, EQ setting(cinema, user,classic,popular,rocl, etc.), and Loud on



★ Backlight setting

Click the“backlight” icon to adjust the backlight, bright screen in the night might hinder the

This function is only available when the system is connected with mobile phone. When the mobile is playing music, click the "BT music" icon in main interface, switch to music play interface, shown as below picture:



1.  ---Stop play.
2.  ---Last section/item.
3.  ---Play/pause.
4.  --- Next section/item.

iPod interface

★ This system supports iPod audio and video playing. iPod is a large capacity media developed by APPLE CORPORATION, it takes 1.8-inch hard disk produced by Toshiba as storage media and has a storage capacity of 2~80G. It can store more than 10000 MP3 music/video files with CD quality, has perfect management program, innovative operation manner and unique appearance. It is one of few APPLE products that can cross PC and MAC platforms. Besides playing MP3 and compressed audio/video files, iPod also can be used as High-speed mobile hard disc.

★ When the device is under running state, the system will automatically switch to iPod play mode after connecting to iPod. When iPod is connected to the device that is not under the running state, it shall click iPod icon in main interface to switch play source to iPod play.

★ iPod operation can be done by touch screen and the steering wheel control. The detailed information such as the name of song, singer, playing state, will be showed on the screen.



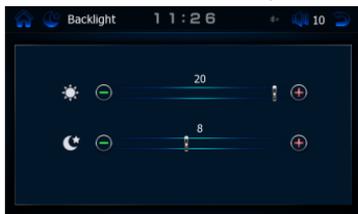
Setting interface

Click "Set-up" in the home page to enter into setting interface, here including Navi setting, Timer setting, Sound setting, Light setting, Language setting, Option setting, Background setting, Steerwheel setting, Car logo setting, Standby setting, Radio setting, Sys info.



driver.

(Remarks: you can reset to the default value, it is 100%).



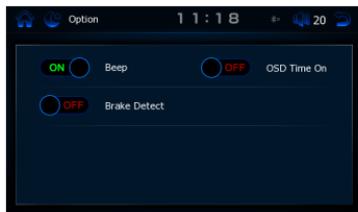
★Language setting

Click to select the language. The system is built-in multi-languages: Chinese, English, Portuguese, French, Spanish, Deutsch, Russian, Japanese.



★Option setting

User can select "Beep" and "Break detect"



★Background setting

The user can select the background images, then click the "OK".



★Steering wheel control setting

Learn the buttons between steering wheel and dvd unit one by one, then you can control dvd unit through steering wheel button.



★ Car Logo

Here the user select the car logo according to your car brand.



★ Standby setting

The user can set off-screen time here.: 3 minutes; 5 minutes; 10 minutes; standby sofor now. It will be on all the time if setting is cancelled.



★ Radio setting

The user can select the radio area:Europe,Russia,N.AMERICA,S.AMERICA,JAPAN



★ System info.

Here the user can get the software version no, adjust the touch panel, reset to factory setting.

default setting is ST. AM band doesn't have this function.

7. **DX**---In FM band, press this button to switch between LOC and DX. The default setting is DX. AM band doesn't have this function.
8. **BK**--- Short press this button to switch radio skin.
9. Both sides are for prestored station region. Short press any station number of this region, it will play the station that chose; Long press any station number, the station that being played will be restored.

Note: This function can be achieved by short/long press number 1-6 of the remote control.

TV function

The system is built-in TV function. It supports TV signal inputs of all colour and sound systems. shown as follow picture:



★ Enter

Click TV icon in main interface/press MODE key in remote controll to switch and enter TV mode. Touch "Auto Search" button to start automatic search of TV channels. The channels that searched will be stored automatically.

touch screen, the "Auto Search" button to start automatic search TV channels, the search range for the entire TV channel range, automatic memory search to TV channels to the serial number increments preset channel bodyin

★ Exit

Select or automatically turn to other play mode.

Play USB

When the device is under running state,the system will automatically switch to USB/SD play mode after connecting to USB/SD,When USB/SD is connected to the device that is not under running state,it shall click "USB"/"SD" icon in main interface/prss mode key in remote controll to switch play source to USB/SD play mode after the device runs. Formats supported by USB/SD: MP3/WMA/MP4/JPEG/ BMP etc.Shown as below picture:



★Play DVD

Attention: Please use standard and genius discs and keep the discs clean. Proper use can assure normal service life of this product.

Insert the disc into disc inlet slightly, the disc will be suctioned into the device and played automatically.

Remote control



Caution

1. Service life of the battery is about 6 months under normal conditions. If the remote control cannot be operated normally, battery shall be replaced in time.
2. If the remote control is out of service for a long time, the battery shall be taken out to prevent liquid leakage that can damage the remote controller.
3. Avoid dropping the remote controller to prevent damage.
4. Do not dismantle and cushion the battery, or put battery into fire or place with other metal articles.
5. Place the battery of remote controller in a safe place to prevent the children from swallowing the battery. If the child swallows the battery by accident, please bring him/her to see the doctor immediately.

Key name	Function
	Power switch on/off/key
S	Switch mode
M	Mute
B	Under radio mode, means switch bands. Under DVD mode, means stop.
	Under radio mode, means scan stations. Under DVD mode, means paused/play.
	Previous track/Next track
	Move picture Left, right, up, down, rotate
E	Means confirm/approved
	Lighter

Audio and Video knowledge

Disc types	Content	Disc size
DVD	Sound & Picture	12cm
VCD	Sound & Picture	12cm
CD	Sound	12cm
MP3	Sound	12cm
MPEG-4	Sound & Picture	12cm
USB	Sound & Picture	12cm

Notice: This product supports VCD dis of 1.0/1.1/2.0/3.0 version

Main interface

In the status of ON, touch the top left of the screen to enter intomain interface.

The system provides functions of Navigation, Radio, TV, USB, DVD, SD card, BT music,3G Network,Setup,AUX,Ipod,Bluetooth. Touch the icons in the main interface to enter into the relavent function.



The main interface is made of several icons for different functions. Touch the icons in the main menu to enter into the second-level menu. Under second-level mune, touch  icon to return to previous menu.

Navigation system

★Cautions:

1. Be careful to use the GPS system. The functions of this system is for navigation reference only, so please do use it for accurate measurement of the position, distance, location, terrain, etc..
2. During the first GPS satellite positioning, please stay in the same location, where there shall be open area and without any shelter on the topappropriate open space at the top of may not have shelter. It may need more than two minutes to finish the positioning, depending on the environment and satellite signal strength.
3. For your driving safety, please finish the navigation setup before going out on the road. Please do not operate the system when driving because it may lead to a traffic accident if the area ahead is neglected.
4. When passing through the tunnel, or the car is located in the building, the underpass, climatic factors, or the surrounding tall obstacles, or nearby mobile phone base stations, satellite signal reception quality will be affected, then the system will be temporarily unable to provide you with positioning and navigation. While leaving the sources of influence, you can quickly restore the positioning and navigation.
5. Please note that any wireless telecommunication products(such as mobile phones or speed alarms), are likely to interfere with satellite reception, resulting in signal reception instability.

Thank you for selecting our products! Hope this user's manual facilitate your understanding of product operating method. Our company has the right to make final description of the Operating Instructions of this product. Before use, please be sure to read it carefully for safe operation and better entertainment.

Main features:

1. High Definition TFT-LCD digital screen.
2. Built-in AM/FM receiver, with 30 preset stations , RDS available
3. Compatible with DVD/VCD /CD/MP3/WMA/MP4/JPG/E/AVI
4. With multi-language
5. Built-in GPS multimedia system
6. Built-in bluetooth function, with touch input
7. GPS sound output mode can be defined.
8. With AV output, can be connected with amplifier and monitor
9. Aux-in function, can be connected with external AV output device
10. Support USB/SD audio/vedio/picture display
11. Auto recognition of NTSC/PAL system
12. Hi-fi highpower output
13. Real time display
14. Rearview camera input, automatically change to rearview when reversing (A camera is needed)
15. Built-in CMMB digital TV(optional)
16. Full function remote control
17. Easy for installation

Notice of use



Attention: Before installation, please carefully read all the instructions. Car audio professional vendors' guidance are recommended for the installation.



This model fits automobile 12V power supply system(ground wire should be connected). Please do not install it directly in truck or bus with 24V power supply, otherwise will cause machine damage.



Original disc is required. Please do not use non-standard or inferior disc, otherwise may cause machine malfunction or serious impact on its service life.



Replace of power fuse without professional instruction is prohibited. The improper use of fuse will cause machine damage or a fire.



Do not place the unit in moist and humid conditions to avoid electric shock, damage and fire caused by short circuit.



Do not touch the screen with hard objects to avoid touch screen damage.



Attention: To avoid short circuit, please stall the car and disconnect ACC and the connection with B+.