

# USER'S MANUAL

BV9980NV

BUILT-IN NAVIGATION | BLUETOOTH®-ENABLED | DVD/MP3/CD AM/FM RECEIVER

**BOSS**<sup>®</sup>  
AUDIO SYSTEMS

BOSS Audio Systems

3451 Lunar Court • Oxnard, CA 93030

[www.bossaudio.com](http://www.bossaudio.com) | 1-800.999.1236

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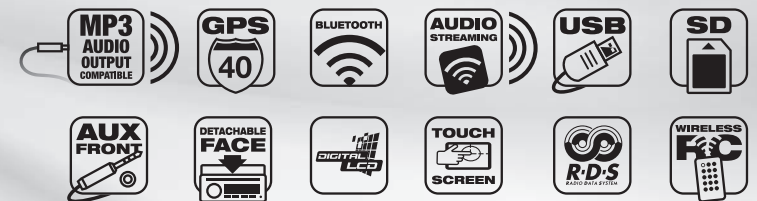
# USER'S MANUAL

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BUILT-IN NAVIGATION | BLUETOOTH®-ENABLED

DVD/MP3/CD AM/FM RECEIVER

FEATURING MOTORIZED 7" (178mm) WIDESCREEN TOUCHSCREEN  
DIGITAL TFT MONITOR



**BOSS**<sup>®</sup>  
AUDIO SYSTEMS

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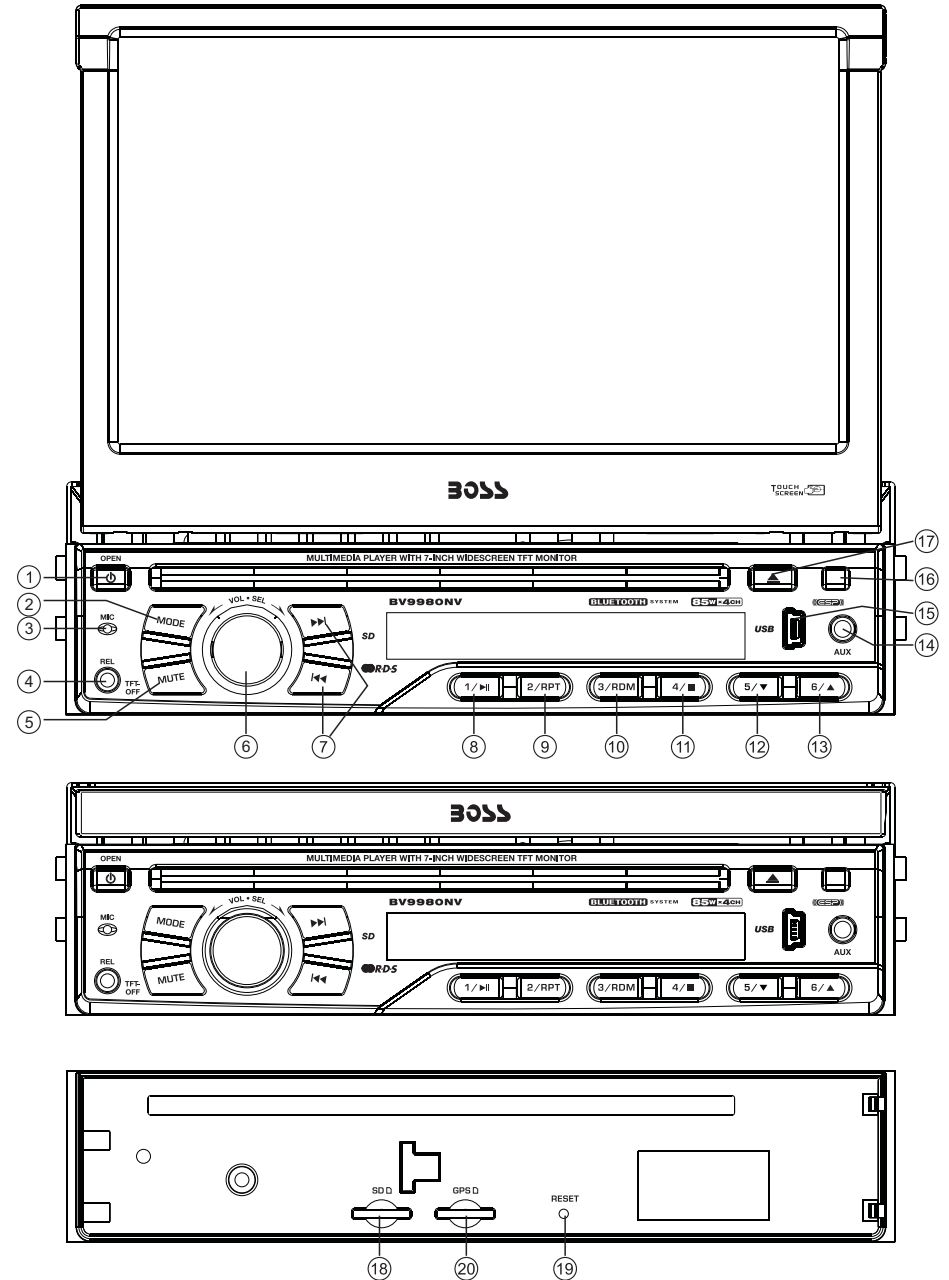
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### NOTE:

1. Please read the instructions before using the unit, the damage caused by not following the instructions will not enjoy the warranty.
2. To drive safely and avoid break the traffic rules, do not watch program and operate the unit while driving.
3. To avoid short circuit, please do not exposure the device to rain.
4. To avoid short circuit, please do not put in the device or any metal objects left behind.
5. Not open the machine for maintenance by yourself, please go to the professional repair service station for repairing.
6. When the engine is turned off, please do not use the car audio a long time, otherwise the battery may run out.
7. Do not insert anything to the device's vent and other openings.
8. Damage to the screen carefully! Do not use sharp objects push, rub, Stroke the screen.

**Warning:** To ensure safety while driving and to comply with laws, drivers should not watch video or operate the video device while driving.

## Panel Introduction



## 1. / OPEN Button

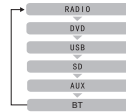
Press the button to open / close the screen.

Press this button for short moment to turn on power, and long press it to turn off power.

## 2. MODE Button

When the unit is power on, Repeat press this button can switch to different function mode as following picture.

Note: When the device without connecting to USB、SD or DVD no disc inside, the system will automatically skip these related working mode.



## 3. MIC Input

BT MIC input.

## 4. REL Button

Press this button to release the panel.

## 5. MUTE Button

Press this button to shut off sound output, repress this button to resume sound output; Long press this button longer to turn on / off TFT LCD display.

## 6. (VOL/SEL) Volume adjustment mode

Repeat pressing this button can select the VOL、BAS、TRE、BAL、FAD adjustment mode,

Then can rotate the button to adjust VOL、BAS、TRE、BAL、FAD as you like.

## 7. / Button

In radio mode, press / rotate the knob to select station upward / backward.

Long press / rotate the knob to automatically scan station.

In playback mode, short press / rotate the knob to select song upward / backward, long press / rotate it to achieve speed forward / backward function.

## 8. Number Button 1 /

In radio mode, press this button to hear radio preset;

In disc playback mode, press this button for Play/Pause.

## 9. Number Button 2 / RPT (Repeat Playback)

In radio mode, press this button to hear radio preset;

In disc playback mode, press this button to repeat the current track indefinitely.

## 10. Number Button 3 / RDM (Random playback)

In radio mode, press this button to hear radio preset;

In disc playback mode, press this button to play tracks on the disc in random order.

## 11. Number Button 4 /

In radio mode, press this button to hear radio preset;

In disc playback mode, press this button for to stop playback.

## 12. Number Button 5 /


In playback mode, press the button to adjust the angle of screen.

## 13. Number Button 6 /

In playback mode, press the button to adjust the angle of screen.


## 14. Dual (front and rear) AUX

To input external audio.

 Warning: You can only use either front or rear AUX at a time. Never connect both front and rear AUX at the same time.

## 15. Dual (front and rear) USB

Insert USB removable device so as to read audio/video files.

 Warning: You can only use either front or rear USB at a time. Never connect both front and rear USB at the same time! This could cause malfunctions.

## 16. IR

To receive infrared signal from the remote control.

## 17.

When there is a disc in the unit, press the button to eject the disc.

## 18. SD

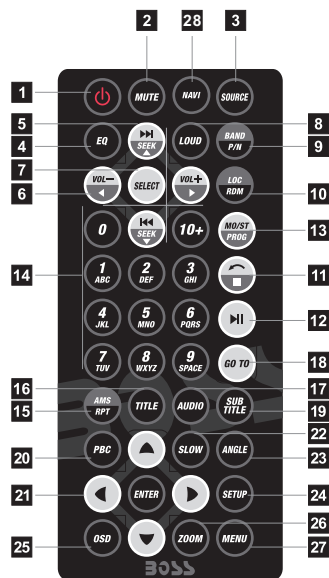
Insert SD card, the unit will play the files automatically.

## 19. RESET

Press this button and this unit will be restored to the initial state.

## 20. GPS

Insert map card to read navigation map data.



- |                 |                            |
|-----------------|----------------------------|
| 1 POWER ON/OFF  | 15 AMS / RPT               |
| 2 MUTE          | 16 TITLE                   |
| 3 SOURCE        | 17 AUDIO                   |
| 4 EQ            | 18 GO TO                   |
| 5 SEEK+ / SEEK- | 19 SUBTITLE                |
| 6 VOL+ / VOL-   | 20 PBC                     |
| 7 SEL           | 21 UP / DOWN / L / R ENTER |
| 8 LOUD          | 22 SLOW                    |
| 9 BAND / P / N  | 23 ANGLE                   |
| 10 LOC / RDM    | 24 SETUP                   |
| 11 STOP         | 25 OSD                     |
| 12 PLAY / PAUSE | 26 ZOOM                    |
| 13 ST / PROG    | 27 MENU                    |
| 14 0-10+        | 28 NAVI                    |

## 1. POWER Button

Press once to switch on, press again to switch off.

## 2. MUTE Button

Press once to turn off audio output, press again to resume volume level.

## 3. SOURCE Button

Press this button to change mode.

## 4. EQ Button

Press this button to choose POP、ROCK、METAL、EQ off.

## 5. SEEK+ (▶▶) / SEEK- (◀◀) Button

In normal playback MP3、USB、SD songs, Press this button to previous song or next song.

## 6. VOL+ (▶) / VOL- (◀) Button

Press this button to increase or decrease volume level.

## 7. SEL Button

Press this button to choose sound feature.

## 8. LOUD Button

Press this button to startup LOUD function.

## 9. BAND-P/N Button

In radio mode, press this button to choose band.  
In VCD、DVD mode, press this button to choose PAL、AUTO or NTSC system.

## 10. LOC / RDM Button

In radio mode, press this button to switch between local and direction.  
In VCD、CD mode, press this key to randomly play.

## 11. STOP Button

Press this button to stop playing.

## 12. PLAY / PAUSE Button

Press this button to switch between play and pause.  
In stop mode, press this button to play.

## 13. ST / PROG Button

In radio mode, press this button to choose stereo or mono station.  
In audio mode, it can help STOP button to programmed play.

## 14. 0-10+ Button

Press this button to choose desired song、section、preset stations.  
Decimal numbers, for example the 19th song, press 10+ and 9 button.

## 15. AMS / RPT Button

In radio mode, press this button to browse stored stations.  
In audio mode, press this button to play repeatedly.

## 16. TITLE Button

In DVD mode, press this button to play back to the top menu of disc.

## 17. AUDIO Button

In DVD mode, press this button to switch language of dialogue.  
In VCD mode, press this button to choose left track、right track and stereo.

## 18. GO TO Button

In DVD mode, press this button, you can define playing time.

## 19. SUBTITLE Button

In DVD mode, press this button to switch language of subtitle.

## 20. PBC Button

In VCD mode, press this button to display all song menus, work with number button to choose songs.

## 21. UP、DOWN、LEFT、RIGHT、ENTER Button

In DVD mode, press this button to move cursor up, down, left, right to choose item in menu, press the enter button to confirm choice.

## 22. SLOW Button

In audio mode, press this button to slow backward and slow forward.

## 23. ANGLE Button

In DVD mode, press this button to change play angle.

## 24. SETUP Button

In audio mode, press this button to choose different set items.

## 25. OSD Display

Press this button to display the title chapter and the left time.

## 26. ZOOM Button

In DVD/VCD mode, press this button to ZOOM in.

## 27. MENU Button

Press button to back to the main menu.

## 28. NAVI Button

Press the button to enter/exit the navigation interface.

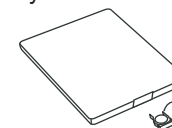
## BATTERY CHANGE

When control distance of remote control becomes shorter or no function, please change battery. Please confirm polarity before change.

One hand press stopper, then pull out battery.




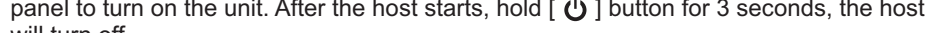
Put battery into controller.



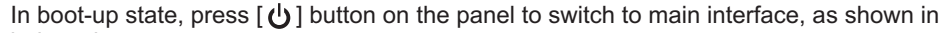
Insert battery holder into controller.

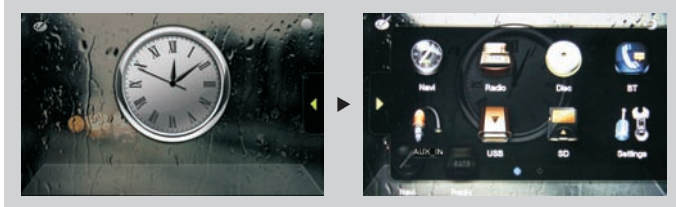



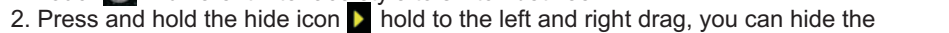


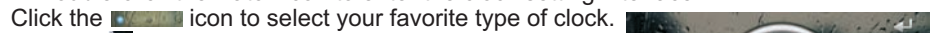
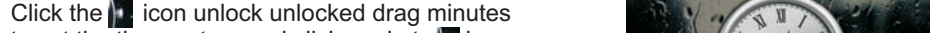

## Turn on/off

When the ignition switch is put in ACC or ON position, Press [  ] button on the front panel to turn on the unit. After the host starts, hold [  ] button for 3 seconds, the host will turn off.

## Access main interface

In boot-up state, press [  ] button on the panel to switch to main interface, as shown in below picture:



1. Touch  in different interface style to switch between.
2. Press and hold the hide icon  hold to the left and right drag, you can hide the location of the icon to the left or right.
3. Click the  icon or gently with a touch pen or finger to the left and sliding screen to toggle the main menu page.
4. To reset the shortcuts with a touch pen or finger to hold down the icon to drag the icon to drag the icon to the shortcut bar to the bottom of the screen, move over the icon will replace the old icon. If you want to delete the shortcut icon, first press and hold the icon until the trash can icon and then drag to the trash.
5. The icon at the touch on the main interface  to switch between day, night and off-screen three modes.
6. Touch the function icons so as to access the corresponding function operations.
7. Double-click the watch icon to enter the clock setting interface:  
Click the  icon to select your favorite type of clock.  
Click the  icon unlock unlocked drag minutes to set the time, set up and click again to  icon to lock the clock.



## Wallpaper and Logo Setup

Click on the main interface [wallpaper] icon into the wallpaper and boot screen settings interface, you can choose your favorite wallpaper and boot screen.


Note: The start-up screen has been set at the factory.



## Radio Operation

### 1. Enter/exit

Touch [Radio] icon in the main interface to enter into the radio interface.

Touch [  ] icon to return to main interface, and then touch other function icons so as to exit radio mode.

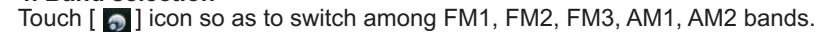
### 2. Operation stored radio

Each band can be stored six radio stations, radio stations can be stored directly click (P1-P6) choice, and will be displayed on the screen.


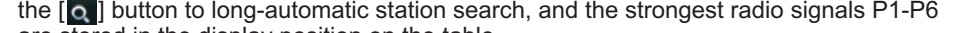
### 3. How to save radio stations

Select a band, and then select a radio station. Press and hold button (P1-P6) to select the preset number will appear in the corresponding number button on the screen.


### 4. Band selection

Touch [  ] icon so as to switch among FM1, FM2, FM3, AM1, AM2 bands.


### 5. Search/Save radio stations

Short touch the [  ] button, browse 1-6 sets of bits stored on the radio, Long touch the [  ] button to long-automatic station search, and the strongest radio signals P1-P6 are stored in the display position on the table.

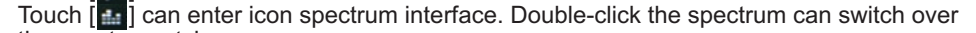
### 6. Play radio station selection

Touch [  ] icon pop-up selection sets the keyboard input radio frequency selectable radio frequency spectrum or you can drag directly touch the icon to select a stored radio station.


### 7. Other Functions

Touch [  ] icon to access sound setting interface.

Touch [  ] icon so as to turn on/off loudness function.

Touch [  ] can enter icon spectrum interface. Double-click the spectrum can switch over the spectrum style.

Touch [  ] icon so as to turn on/off Long/Short-Range function.

Touch [  ] icon to turn on/off stereo.

### 8. RDS Function

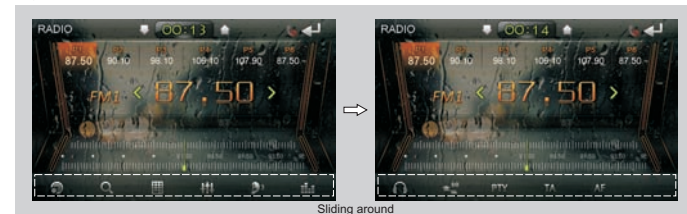
RDS function provides series information (such as traffic information, name of station), and can automatically switch to the station with stronger signal and carries the same program.

**AF:** touch the button to turn on/off AF mode.

**TA:** touch the button to turn on/off TA mode.

**PTY:** touch the button the screen displays program types, users can search station according to program type.

**NOTE:** If the unit does not have RDS function, it has no AF/TA/PTY function, Touch the corresponding icon had no effect.



Sliding around

## 1. Play/eject disc

### Play disc

Insert the disc into the disc slot with the printing surface up, system will detect the disc and automatically take it in to read and play.

### Eject disc

(1) Click [▲] button on the panel to eject the disc.

(2) If a disc has not been took away 15 seconds after it is ejected, system will automatically take in the disc but not play.

⚠ **Do not insert two discs or more.**

## 2. DVD/VCD disc playback

During playback of disc, touch the middle lower area of the screen to pop up the touch menu, operate the touch menu to perform various playback controls.

## 3. CD Disc Playback

After a CD is inserted, system shall access disk reading state immediately.

When there is a disk in the device, click [Disk] at the main interface so as to access disk reading state.

After the disk being read out, system shall automatically play in sequence.

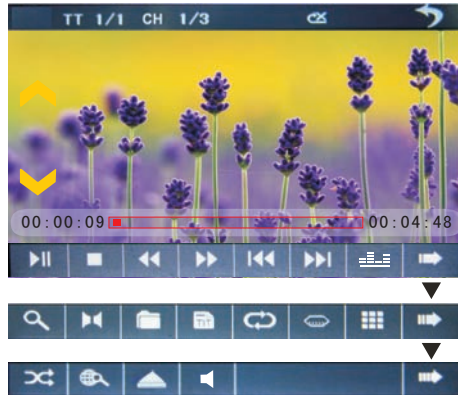
## 4. MP3/JPEG/MPEG4 disk playing

When the disk contains readable files, such as MP3/JPEG/MPEG4 files, it shall be automatically read out and played after slipping into DVD player.

During playing, touch the screen area and the touch menu shall pop up. Operate the touch menu for playing.

## 5. Touch Menu Function Description

The disc read, touch area of the screen, pop-up touch menu. Operate a variety of playback controls the touch menu.



⏮ ⏭ — **Forward/Backward play**  
Click the button, forward/backward play.

⏮ ⏭ — **The previous/next song**  
Click the button, The previous/next song.

⏮ — **Channel conversion**  
Click the button, Switchable channel.

🏠 — **Back to Root Menu**  
Click the button the DVD state can return to the root menu of the disc, VCD state can enter the PBC menu and playback.

📄 — **Access title menu**  
Press this button to return to title menu of the disk. Directly click menu bar at title menu interface for playing.

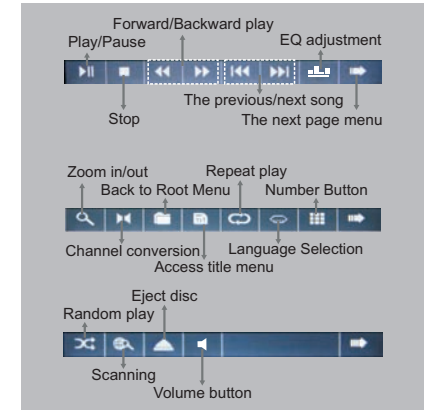
🔄 — **Repeat play**  
In playing state, touch this button to start repeat play function:  
Chapter repeat → Title repeat → Entire disc repeat → Off.

🗨 During VCD playing, this function only works when PBC is off.

🗨 — **Language Selection**  
Touch the button, can switch subtitle language.

🗨 Note: the need to support the subtitle language discs have this feature.

📄 — **Number Button**  
Click the button, pop-up numeric keypad. By click the numeric keypad for direct selections played.



## USB/SD Card Operation

When there is a USB device/SD card connected, the unit can conduct the playback of audio/video/image files in the USB device/SD card.

### Insert/Eject USB storage device

1. Connect a U disc recorded with media information to the unit by a USB connecting cable.
2. When there is a need to eject the USB device, exit the USB device playback screen first, and then take out the device.

### Insert/eject SD card

1. Insert a SD card recorded with media information into the SD card slot in the unit correctly until it is locked.
2. When pulling out the SD card, exit SD card playing state first, then press the SD card and it shall pop up after unlocking.


### Enter/exit

Insert a USB storage device or SD card to automatically play data contained in it. If the unit has connected with a USB device or SD card, touch [USB] icon in the multimedia interface to enter into the external storage playback interface; Touch [SD] icon to enter into the SD card playback interface. During playback, touch the top center area of the screen to pop up the touch menu, operate touch menu to perform various playback controls.

### Play

After SD card/USB removable device being read out, the operation methods are similar to disk operation methods.

## 1. Enter/exit




Touch [BT] icon in the main interface to enter the BT interface, as PIC 1:  
Touch  icon to exit BT interface.

## 2. Pair/link



To use BT hand-free function, make connection first, i.e. match the host with the BT mobile phone.

### Operation methods:

Set the host to be matching state, and open the BT of your mobile phone and use the mobile phone to search device, the mobile phone shall prompt to match password with the BT when it has searched the BT device. Input BT password (0000) to the mobile phone and confirm. The mobile phone shall prompt whether authorize to this device, please select [Yes]. Phone and BT shall automatically connect within 20 seconds. Under any working mode, the host shall convert to BT state if there is an incoming call. And the host shall restore to current mode after hanging up.






 When the BT device matches with this device, the connection status shall display , otherwise, it shall display .

## 3. Dialing


You can dial on mobile phone directly or input phone number through the number buttons on the screen, click  to delete if there is input error. After input the phone number, click  to make a call.


## 4. Call records

In the BT interface of click  to access call records interface as PIC 2:

-  **Dialled numbers:** Touch this button to check all the dialed phone numbers.
-  **Received calls:** Touch this button to check all the phone numbers of received calls.
-  **Missed calls:** Touch this button to check all the phone numbers of missed calls.
-  **Delete:** Touch the button to delete a selected record.
-  **All Delete:** Touch the button to delete all information in phone book.

## 5. Phone book

After the cellphone gets connected to the unit, you can read records in the phonebook of your cellphone and store information in the phonebook of the unit. In the BT interface of click  to access Phonebook interface as PIC 3:

Touch  icon in the phonebook interface, the unit will automatically download phone numbers and put them in order.


## 6. BT Music

In the BT interface of click  to access BT music interface as PIC 4:



Connect the video input plug with external video input jack, and connect the audio input plug with external audio input jack.

Touch [AUX-IN] icon on main interface to access external input interface.

Click  icon into the sound settings screen.

 Loudness on / off.



## Compass Operation

In the main interface touch [Compass] icon, into a compass interface.

## Calculator Operation

In the main interface touch [Calculator] icon, into the counter interface.

## Steering wheel setting

Click the settings interface [STEER] icon into the steering wheel settings interface.

Steering steps:

The original line of control of the vehicle side, the positive, the negative and machine side control line cathode, anode connection after connection:

- ① Touch [Reset] and press above the steering wheel buttons one by one, and record the appropriate sequence and function, touch [Assign].
- ② Touch the desired distribution voltage value (such as: 2.00V).
- ③ select the appropriate settings (such as: Vol +).
- ④ completed the steering wheel buttons will display the corresponding function.
- ⑤ After completing the settings, touch [Enter] to save the settings.
- ⑥ For the reset function, can touch [Reset] (the original settings will all be cleared), and repeat Step ② ~ Step ④ for resetting.
- ⑦ You can also choose to set a good model of the steering wheel.

Click [Car type] icon pop-up model selection interface, select your car type click [Enter] icon to save the settings.



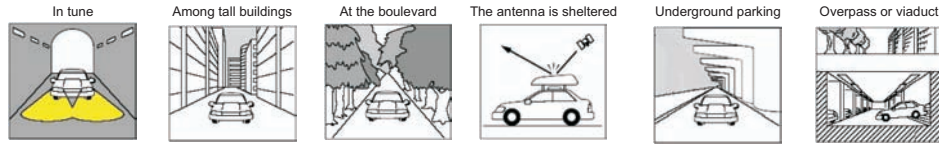
# GPS Operation

## 1. Navigation Function Operation

For detailed operation of navigation function, see “Navigation Operation Manual”.

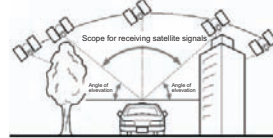
## 2. Receiving signal error

When the satellite signals can be normally received, the error of standard GPS shall be about 7 meters. Driving on parallel sections, there shall be error even the product has auto-correct function. The normal receiving of satellite signals shall be affected and cause error in following environment:



## 3. Satellite receiver

Navigation system can keep receiving eight satellite signals. As a general rule, the navigation system can figure out your accurate location after received 3-4 satellite signals. But sometimes, weather and tall buildings in the city shall affect the signal receiving effect.



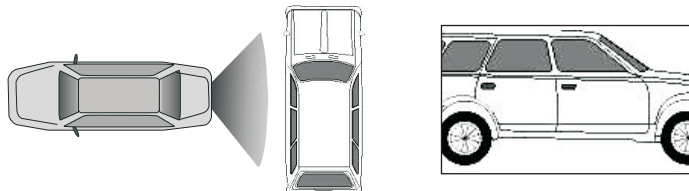
## Other Operation

### Rear view function

In any running state, the video signal can switch to reverse video state when reversing the car, and the system shall return to its initial running state after reversing the car.

### Warning

Do not rely on CCD system completely, please make sure your car is safe by your eyes during driving. Back rearview system only assists in driving. As the distance range of rearview system is limited, completely relying on the rearview system during driving may cause accidents.



Reverse field simulation

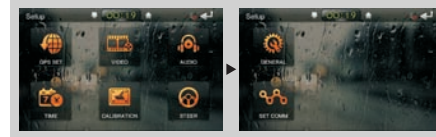
Rearview backup image

# Basic operation setup menu

## Access setup interface

Click on the main screen [Setup] icon, enter the setting interface.

With a finger or touching pen to gently sliding screen can be set about switching interface.



## Navigation setting

Navigation path has been set at the factory, please do not enter the navigation setup interface to change the path freely, otherwise the procedure many lead to abnormal navigation.

## Video setting

In the set interface click [VIDEO] icon, into the video set interface.



Brightness: Drag icon can adjust video the screen brightness.

Forbid play on run: Driving ban and click on play icon can open/close the function.

## Audio setting

In the set interface click [AUDIO] icon, into the Audio set interface.



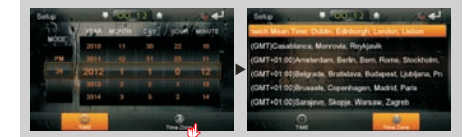
Click [Sound Effect] into sound effect default interface. Press [Loudspeaker] into loudspeaker interface, click [Channel] to adjust the channel of loudspeaker, touch [Back] to get back to initial setting.

**BEEP:** click that icon to switch on/off that.  
**LOUD:** click that icon to switch on/off that.  
**EQ:** click that icon to switch different mode.

Navi Vol under EQ: if Navi Vol is set higher than system default vol, Navi Vol will work; if Navi Vol is set lower than system default vol, then unit will work default vol.

## Time setting

Click the Settings interface Time setting icon, enter the Time settings screen, 12h/24h interchangeable, as shown below:



In the year, month, day, hour, sub-office slide up and down to the relevant settings. Zone is set to enter the time zone settings interface when clicked.

Choose the time zone, click the [Back] icon to save your settings and exit the time setting interface.

## Touch calibration

If touch calibration error occurs, you can adjust the touch coordinate by “Touch calibration”. Click [CALIBRATION] icon on setup interface, click OK to pop up a [Do you want to calibration?] as shown below, click OK to confirm to access touch calibration interface:



## Touching methods

Use touch pen to click the center of “+” icon, and move along with center of “+” icon so as to calibrate the screen, It shall automatically save data and exit after screen calibration. Please accurately click all positions on screen, or the accuracy of touch calibration shall be affected.

## SET COMM setting

In the set interface click [SET COMM] icon, into the Serial port set interface.



Choose good then click the [Back] icon to save your settings and exit the serial port settings interface.



# General Settings

In the set interface click [GENERAL] icon, into the General set interface. (Password: 888888). General settings have been set at the factory.

## Language setting

In the General Settings screen, click [LANGUAGE] icon to enter the Language setting interface, as shown below:



Slide up and down to select your preferred language mode.

## Regional radio

In the General Settings screen, click [RADIO] icon to enter the Radio setting interface, as shown below:



Select your desired area.

## System setting

In the General Settings screen, click [SYSTEM] icon to enter the System setting interface, as shown below:



You can choose the system settings interface has the feature is turned on or off.

## Car Set setting

In the General Settings screen, click [Car Setting] icon to enter the agreement setting interface, as shown below:



You will need to set protocol, click the icon to confirm the save the settings. ✓

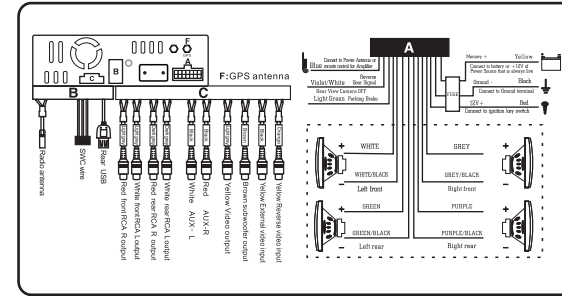
## Version Information

In the General Settings screen, click [VERSION] icon to enter the Version Information interface.

# WIRING DIAGRAM

This player is equipped with ISO standard connector, please follow below instruction:

- Red - ACC ON (+12V)
- Yellow – 12 V Constant
- Black – Ground wire
- Blue - Power Antenna / Remote Amp Turn On
- Violet/White-Reverse Gear Signal (+)
- Grey/Grey black - Right front speaker (+/-)
- White/White black - Left front speaker (+/-)
- Purple/Purple black - Right rear speaker (+/-)
- Green/Green black - Left rear speaker (+/-)
- Light Green-Parking Brake (-)



# TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Cannot power on	Check fuse	Change fuse same as the old one
	Some factors cause MPU wrong operation	Press RES button on the panel by penpoint, then, power on
After ignition switch off, setting information all lose	Change battery or fuse	Reset information and save
Poor performance of radio station	Weak signal	Move the car to another place, then research
Cannot load disk	There is a disk inside	Remove disc before inserting another one
	Disc is scratched	Change new disc
Cannot play disc	Put wrong side of disc into the unit	Insert in the disk with sign side up
	Lens is dirty	Clean lens by lens clean disc
Cannot switch language/subtitle	There is only one language/subtitle in disc	If disc is not with multi-language/subtitle, it cannot switch language/subtitle
No image	Other factors cause MPU wrong operation	Press RES button on the panel by penpoint, then, power on
Cannot 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 " postion, pull up the hand brake, parking brake wire must be grounded

## SPECIFICATIONS

Power supply ----- DC 12V  
 Power range----- 10.8-16.0V DC  
 Max Current Consumption ----- 15A  
 Ground system ----- Negative ground  
 Power Output ----- 85 WattsX4 Channels

### FM tuner

US frequency range ----- 87.5-107.9MHz  
 European frequency range ----- 87.5-108MHz  
 Signal / Noise ratio----- 55dB  
 Stereo separation ----- 30dB  
 Search station volt ----- 20-30dBuv

### AM tuner

US frequency range----- 530-1710KHz  
 European frequency range ----- 522-1620KHz  
 Limit noise sensitivity ----- 32dB

### DVD player

S / N Ratio----- 70dB  
 Frequency response----- 20Hz-20KHz

## ACCESSORY

Accessory	Quantity
Wire	1PC
USB Cable	1PC
Keys	2PCS
Remote controller	1PC
Warranty card	2PCS

## DVD Parental control function

### DVD Parental control function

\* DVD Parental control function: The default set for DVD is #8 adult, which means all grades of DVD can be read without entering password. To change the default grade, you need to follow the below procedure: Press SETUP button on the remote, display will show the system set up menu and the submenu, select password and enter 0000, you will be able to choose the DVD grade as default.