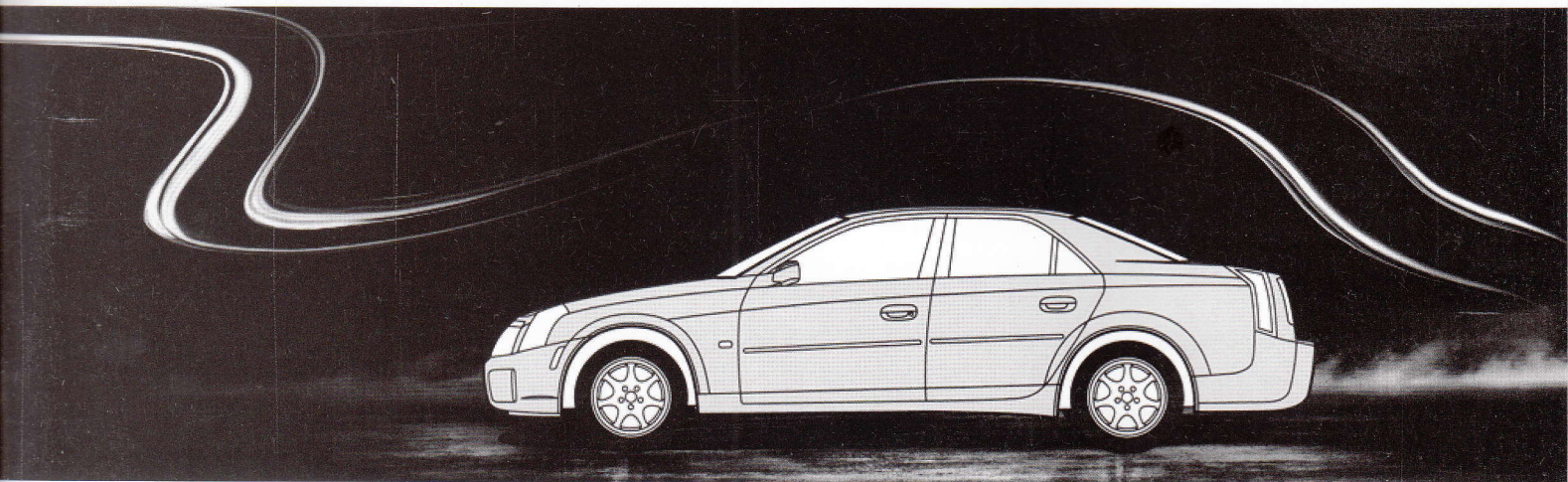


Car Multimedia System

# **DH Series User Manual**



Professional vehicle entertainment multimedia

# CONTENTS

Acknowledgements .....	1
Warning .....	1
The use and maintenance of Discs .....	1
Interface Operation.....	4
Main Interface .....	4
※Radio Interface .....	5
※Multimedia Play Interface .....	6
※DVD Interface .....	7
※GPS Navigation Function Introduction .....	8
※Bluetooth Function Interface .....	10
※Bluetooth Music .....	13
※ATV Use Function .....	13
※DTV Use Function.....	14
※IPOD Use Function .....	15
※AUX Input Function.....	16
※Setting Interface .....	16
※Steering Wheel Contral Key Function .....	22
Human Fucntions .....	23
Basic Operation .....	24
※Remote Control Key Function Instruction .....	24
※Panel Key Function Instruction .....	26
The Use of Remote .....	27
Common Troubleshooting Guide .....	28
Connector Diagram .....	29
Packing list .....	31

### **Safety Tips**

- For the sake of safety, do not watch the video image or operate the unit during driving, which is prohibited by the law in some countries.
- This system is only for assistant function while backing. The company will bear no liability for any accident occurred during backing.

## Acknowledgements

Thank you very much for purchasing our digital car audio-visual product! Please read this manual carefully before use and keep it well for future reference.

## Warning

1. Do not expose the unit in damp environment to prevent from fire or electric shock.
2. Any change or modification to this unit without the clear prior consent of the authorization party may bring Inconvenience to the users.
3. Keep the disc tray clean and wipe it with clean soft cloth in case of dust to prevent from affecting play effect or slow disc entrance/exit or no disc response. If such problems occur, you need professionals to help clean, which is obviously inconvenient.
4. Play the disc for too long or with a large volume will shorten the service life of this product. To better protect the product, please use together with a radio and with moderate volume level if you keep using it for a long time.
5. This unit contains high precision component, do not attempt to disassemble the unit or adjust any parts inside the machine.
6. Do not touch the screen with hard object to avoid scratching the display.






Note: Because the products are always being constantly improved and updated, subject to change without notice.

**Category I laser product I**











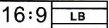


**The use and maintenance of Discs**

☞ This unit is only applied to the following discs:

Disc Category	Disc Symbol	Disc Indexed content	Disc Size
<b>DVD</b>		Sound and Picture	12cm
<b>VCD</b>		Sound and Picture	12cm
<b>CD</b>		Only Sound	12cm
<b>MP4</b>		Sound and Picture	12cm
<b>MP3</b>		Only Sound	12cm

**\* Features of DVD Discs**

Different DVD Discs contains different feature combinations, the kind of difference is mainly caused by design coding division and manufacturer of DVD Discs, the following some icons represent some features of DVD discs.

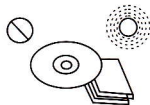
 PAL	The area code and the video output type	 2	The number of sound track
	Dolby Digital Surround	 2	The number of subtitles
	DTS Digital Cinema Surround	 CC	Hide the subtitle
	5.1 sound Channel audio	 2	Angle
 16:9 LB	Video mode	 R	Limit level
 Stereo	Two-channel stereo		

Note: The individual function of the unit has something to do with DVD discs, if discs donot support these functions or require special settings, it canot realize play of some functions. Please check these functions before play, or operate it according to the screen prompts. Pollutional or damaged discs, during playback skips may occur, in order to get the optimal sound effect, when play the disc, pls note the followings.

When holding the disc, must hold the Disc edge to keep the disc clean



Never place the disc in direct sunlight or near heat sources such as warm air pipes. Do not keep the disc in cars when the temperature is excessively high.



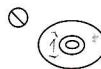
Do not use CD-ROM labeled, labeled CD would leave viscose when the label is off.



When rubbing the disc, pls use the dedicated soft cloth, be sure to rub from the disc center to the edge direction.



Never use discs contaminated by viscose glue or ink.



## Function Features

### Touch Function

- ◆ Operate the display menu by touch.

### DVD Disc Play function

- ◆ Compatible with DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW, CD-DA, MP3, WMA, SVCD, VCD and MPEG1, MPEG2, MPEG4, JPEG format disc.

### USB、SD Card play function

- ◆ Compatible with MP3, WMA, WAV, ASF, AVI, MP4, MPEG1, MPEG2, MPEG4, JPEG, RMVB(720P) format.
- ◆ Support SD and USB(2.0) slot.

### iPod function

- ◆ This unit can externally connect iPod Player

### Radio Function

- ◆ 30 Store stations(FM 18PCS, AM 12PCS)
- ◆ Automatic, semi-automatic and manual search, preset memory stations.

### TV function( optional)

- ◆ Analog TV
- ◆ Digital TV

### AUX input,output, amplifier and other functions

- ◆ Two channel AUX input.
- ◆ 1 channel Reversing rearview mirror input.
- ◆ Four-channel amplifier output, can directly connect speaker.
- ◆ 2+1 channel audio output.
- ◆ Automatic reversing rearview mirror.
- ◆ Full-function infrared remote control and touch function.

### Satellite Navigation

- ◆ The unit has built-in high-tech GPS navigation system.

### Bluetooth Function

- ◆ This unit has built-in bluetooth function (optional)

### Traffic recorder function

- ◆ This unit supports external DVR function.(Note:The function only supports DVR produced by our company).

### Tire pressure monitoring function

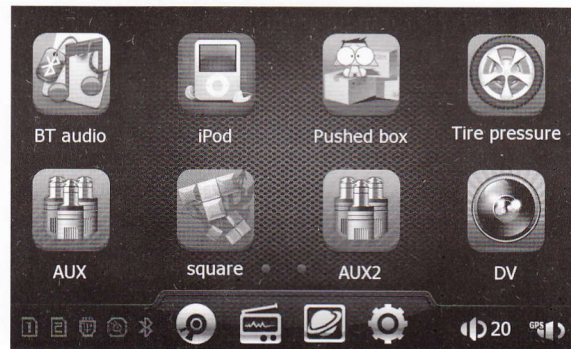
- ◆ This unit can support external tire pressure monitoring function(optional).

### Game function

- ◆ This unit has the Sokoban , Russia building blocks games.

## Interface Operation

### Main Interface



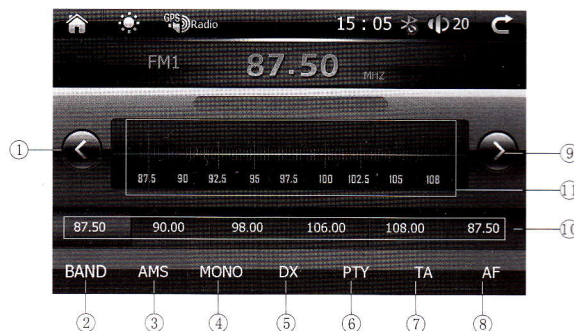
Boot and enter into the first main interface , paddling interface or click [ ● ] to enter the second main interface,touch the icon to go into the corresponding operations,longly touch the icon for 3 seconds, can easily drag and convert the position of the icon.



## Radio Interface

This unit is equipped with a high-quality FM / AM tuner, Support FM / AM channels automatically search、store radio channels , frequency display, frequency tuning function .

FM Channel control interface as shown in picture:




- 1/9、Short touch can gradually make fine-tune the station upwards, long touch to make semiautomatic station searching upwards; Short touch can gradually make fine-tune the station downwards, long touch to make semiautomatic station searching downwards;
- 2、Band switching key : for switching between bands, such as FM1 FM2 FM3 AM1 AM2
- 3、Fully automatic search radio stations, and the strongest signal stations searched are stored in the prestored radio area in turn.
- 4、In FM band, touch the key can switch mono stereo (ST) and monaural (MONO), the default is mono: AM band is without such function
- 5、Long-Short range option
- 6、[PTY] Program Type
- 7、[TA] Traffic Announcement identification.
- 8、[AF] Replace the frequency table
- 10、Prestored Radio Area : Short touch any station number in the area, can play the selected station, long press any station number can store playing radio station.
- 11、Drag the frequency bar, can choose play radio-stations.

## Multimedia Play Function



### 1、Function Introduction

- ◆ The product supports DVD/VCD/SVCD/CD/MP3/WMA/MP4/AVI/RMVB (720P) and audio - video format .
- ◆ Support U Disk - SD/MMC Card play function .
- ◆ Support JPEG/BMP and picture browsing function .
- ◆ Support files - contents browsing .
- ◆ This unit is with electronic shock protection (ESP) features for all kinds of CD playback .


### 2、Disc playback warning : Pls use standard genuine discs, and keep the disc clean, develop good use habits, in order to protect the normal life of the system .

- ◆ Input the CD gently into entering disc orificium, after the CD wave automatically inhalation to the unit, the system will automatically read the disc .
- ◆ In Disc playback process, click the touch screen [  ] key, will return to the main interface of the system .

### 3、USB / SD play need to insert U disk or SD card, not automatically detect .

- ◆ If have inserted U disk or SD card, you can click USB [  ] or SD [  ] of home page to enter the corresponding interface, also can by repeatedly pressing the SRC key to enter .

### 4、Functions introduction

- ◆ As shown in following pics, 1-17 for function keys, click [  ] to enter into the next page function keys .
- ◆ During playback, over a period of time, do not carry out any operation, the upper and lower display bar will disappear automatically, showing full-screen mode, when touch the screen again, the up and down menu bar will appear .

## DVD Interface



- 1、Qausi-Stop/Stop    2、Pause/Play    3、Fast Rewind    4、Fast Forward    5、Last song    6、Next song
- 7、Menu Key    8、Repeat: When playing DVD / VCD / audio/video, can enter into repeating cycle state.
- 9、Next operation interface
- 10、Random: When playing DVD / VCD / audio / video, can enter the random play state.
- 11、Information : When playing DVD/VCD/Audio/Video, can present OSD playback information display.
- 12、Subtitle: When playing DVD/VCD/Audio/Video, the subtitle is selectable. ( must discs support )
- 13、Language: When playing DVD/VCD/Audio/Video, can choose playback language. ( must discs support )
- 14、Channels : When playing MP3/CD/VCD/Audio/Video, can choose channel.
- 15、Digital : When playing MP3/CD/VCD/Audio/Video, digital is selectable.
- 16、The direction key: When playing DVD / VCD video or picture, after entering into the zoom state, can be up ,down, left and right to move the cursor for option .
- 17、Last operation interface

## GPS navigation

### Precautions and safety warning

1. Please use GPS system cautiously" the function of the system only provides navigation reference, not use the system for the accurate measurement of position, distance, location, terrain and so on
2. When the first time GPS satellite positioning, pls staying in the same place, preferably in a open place, above shall not have shelter. Waiting positioning completed may need more than two minutes, depending on the temporal environment and the strength of the satellite signal.
3. For your driving safety, pls complete the stroke setting before driving, not operate the system while driving. Operationg Navigation device while driving, easy to overlook front traffic, so resulting in traffic accidents, the company will be irresponsible.
4. When passing through the tunnel, located in the building, underpass, the woods, climate factors or there is tall barrier around, near to mobile phone base stations, will affect the reception quality of satellite signals, the system will temporarily be unable to provide you with positioning and navigation, when leaving the sources of influence, will be able to quickly restore positioning and navigation.
5. Please note that any wireless communication products (such as mobile phones or speed alarms, etc.), are likely to interfere with satellite reception, resulting in unstable signal reception.
6. Path planning is only for reference, for "regional traffic units will adjust road attributes (one-way streets, prohibit from turning left, etc.) according to the local traffic situation road attributes, or due to the influence of the factors such as road construction, activities of governments and Industry-Commerce to adjust; please be sure to follow the existing state of road - local signs and other traffic rules and driving. If the display of road state you are driving and map picture is different, pls judge by yourself for which route you should be.

GPS Map Card Setting: STORAGECARD    Boundrate: 9600    Port: 2    Resolution: 800×480

### GPS navigation function introduction

The system is equipped with navigation map (Note: some models only are with )

(A) Geometric real intersection, realize real intersection re-appear, no longer worry about the complex intersection.





(B) Live maps cover nationwide major cities



(C) Armed actions: Clear, precise voice navigation prompts provide reasonable guidance timely and fast during you driving, choose the optimal route for you. Facing changeable road conditions at high speed mode, the car multimedia navigation system combines with precise GPS navigation map, timely provide efficient driving information for you, make your driving unblocked, set off to next destination!



For detailed operation instructions, please read the Help Menu of function selection in GPS interface

## Bluetooth Function Interface

Bluetooth communication, ready to ready-to-use, safe and secure, phone and stereo system headunit instant synchronization, the call will not miss among driving.

### 1、Bluetooth matching conditions

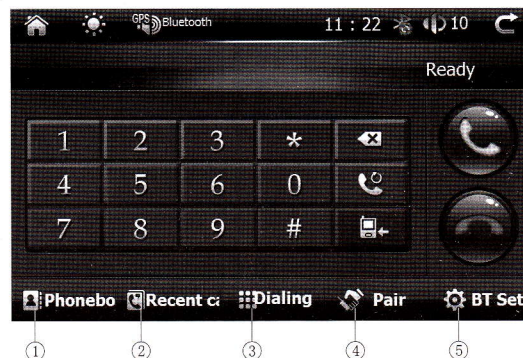
Phone must support Bluetooth connectivity function, you can connect the main-unit by mobilephone in order to realize data exchange synchronization.

### 2、Mobilephone and Bluetooth of main unit match steps

- ◆ Touch [④] on bluetooth interface of main-unit, touch [ match ] ( Figure 4 ) on appeared interface, this time will display [ Matching ] .
- ◆ Set your cell phone in the Bluetooth status, start Bluetooth mode, and operate mobile search devices to input initial password ( 0000 ) according to prompts, and make the connection.
- ◆ After the match is successful, the phone will prompt [ whether ] authorize to connect the device, select [ yes ] for about 10 seconds, the phone will automatically connect the bluetooth device, this time the screen will display "Connected" character.
- ◆ Mobilephone and Bluetooth of main-unit is connected successfully.

### 3、Bluetooth phone interface touch operation

- ◆ Click① to enter bluetooth phonebox interface, as shown in figure 1:
- ◆ Click② to enter bluetooth call records interface, as shown in figure 2:
- ◆ Click ③ to enter the Bluetooth dial-up interface, as shown in Figure 3 :
- ◆ Click ④ when the main-unit needs to connect the phone , firstly need to click the key to match, as shown in Figure 5 :
- ◆ Click⑤ to enter the Bluetooth Settings interface, as shown in Figure 4 :
- ◆ Dial Key: Randomly click the phone number of phone box, then press dial key to call .





(Figure1)



(Figure2)



(Figure3)

Call records ( In Figure 2 ) : the recent [ Received Calls ] / [ Missed Calls ] / [ Dialed Calls ] can present in the main unit. Dialing can choose any number of call records to make a call.

1. Delete key : When inputing the phone number is wrong , you can press this key to delete .
2. Answer/Dial key switch : When you input a number, touch this key can call the number of the user; When a call is incoming, touch this key to turn on the phone when a call is incoming.
3. Redial key: Touch the key to redial the last dialed phone number .
4. Hang-up key: After finishing the call, touch the key to disconnect the call; When the call is coming, touch this key to reject the call.
5. The voice switch key: During a call, click the key can switch the audio signal between the main-unit and the mobilephone.

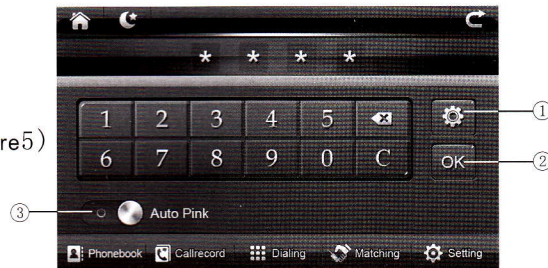


(Figure4)



- 1.Disconnect Key: Press the key to disconnect bluetooth connection.
2. Connection key: Press this button to connect after the completion of the match.
3. Matching key: When the main-unit needs to connect the phone, must firstly click the key to match .

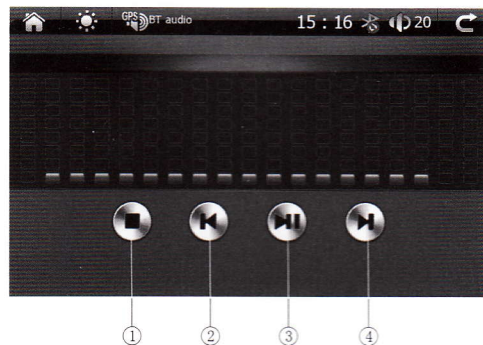
(Figure5)



- 1.Setting key : Touch can set Bluetooth password as the password of their own definition, after inputting 4-digits, touch "OK" ( Note:After changing, will replace the initial Bluetooth code )
2. "OK" key: After inputting a self-defining password, touch this key can take effect.
3. Automatically connect options: Touch the right of the status bar for open automatic answer function, touch the left side of the status bar for automatic answer off .



## Bluetooth music



Bluetooth music: The function can only operate in the connection status of mobilephone and the bluetooth of main-unit.

1. Stop key : Touch the key to stop playing .
2. Select Last Key : Touch this key to play last song.
3. Play/Pause Key: Playback status and Pause playback switch .
4. Select Next Song Key : Touch the key to play the next song .

## ATV use function

Enter into ATV operation interface :




1. Last channel
2. forward semi-automatic station search
3. backward semi-automatic station search
4. next channel
5. TV color switching
6. full-automatic station search
7. Page up channel


## DTV Use Function (ISDB-T)


Make sure that the areas the production usage have opened digital television broadcasting function, please lengthen the TV antenna; The images and content provided in this chapter is for ISDB-T, for reference only, specifically subject to local actual reception conditions. (ISDB-T/DVB-T/CMMB optional)





### Enter TV Play


- Repeatedly press the [SRC] key on the panel or the remote control to enter TV play.
- Directly touch [  ] icon on the touch screen to enter TV play.









Voice control: Press [  ] once to delete sound, press sound again to re-enable; Press [ + ] volume increases / [ - ] volume decreases.

Sound Mode : Support multi-channel sound broadcasting, one after another press the [  ] Button, it will change the order from the tonic (left) / vice tone (right), main sound + sub sound (left + right).

Channel list : Hold down [  ], you can see the saved TV programs in the channel list, you can directly select and use [  ] / [  ] button, press the [  ] button to select programs.

Search : Select [  ], you can see the scan menu. You can choose full-scan and frequency-scan. P2010IB channel scan will start automatically, find the existing broadcast channels of the region. It will be from 30 seconds to 3 minutes in accordance with the signal conditions.

Settings menu: Press [  ], you can see the information : electronic program guide menu / Settings / System Information / scan, you can use [  ] [  ] or remote control [  ] / [  ] button to select, then press [  ] button menu .

## IPOD Use Function





Import IPOD function into the framework of Audio and video entertainment navigation system, so that drivers can enjoy the beautiful sound quality and improved management control methods of IPOD in the Car. Ipod connection socket is set at the back of main unit, no need any change machine, plug and play, automatic monitoring. The main unit can control full functions of Ipod by touch screen and steering wheel buttons, in turn, including play, pause, forward, rewind, the last one, the next song, sound, and other functions. Click playing the screen, automatically pop up the song list shown in Figure 2, the user can immediately enjoy audio and video entertainment. Can show Song, composer Inside IPOD on the Screen, equivalent to all of the ipod shown on the screen, the information is comprehensive and convenient operation .

## AUX input function


- 1、Connect the video input plug to the video input socket,connect the audio input to the audio input jack LIN1, RIN. The unit provides a set of video input terminal and a group of VIDEO IN1 audio input terminal.
- 2、On the home page,select AUX input go into AUX1 AUX2 input interface .

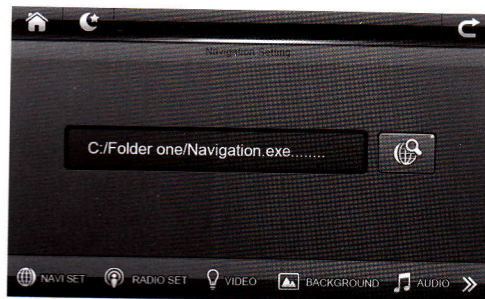
## Setting interface

Touch[  ]to enter setup interface,this interface is to set the entire operating system , including navigation setting, backlight settings,sound settings,the information of the system,booting icon, background setting and the setting of other functions. There are totally three pages when enter the setup interface,touch [  ] to enter the setting interface of next page. ( Note :The setting of the"factory model" is only used for producing factories,the customer shall be disregarded. )





1. GPS navigation path options: Plug prepared map card in advance, touch [  ] go into the map card file, find the file which ends at exe, then touch [OK] option to confirm . ★ Note : Only select the correct map running path, can enter the navigation, generally choose the file which ends at exe.

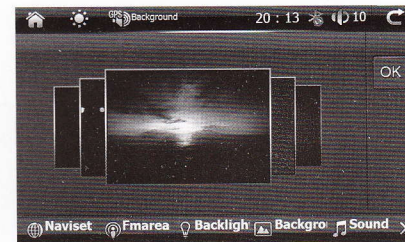


2. Radio Area Setting: Users can choose the radio station frequency of their own area. After select the frequency of the radio state will run automatically in the corresponding frequency . Note: A number of national and regional the radio stations do not support [RDS] this function.

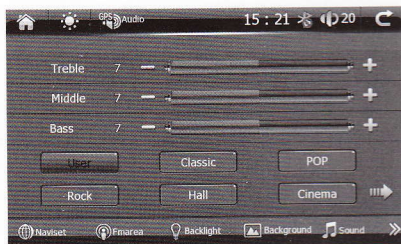




3. Backlight settings : Can prevent that when driving at night, the backlight is too bright, and affect the driver's vision. The default value is 100% .



4. Background Settings: Can choose and replace the background pictures of the unit .



5. Sound settings: This item includes high and low sound, front (Front) , back (Rear) , left (Lrear) , right ( Right ) channel, EQ settings ( Standardization , classical , pop , rock , hall , movie );also can set bluetooth sound, GPS volumn and other options.



6. Language settings: In the interface you can choose the needed language, 10 kinds of language are optional.

7. Time Setting: Including time and date settings, which can choose 12 hour and 24 hour, Touch,paddle and change the date or time,after adjust,exit the interface then is effective .




#### 8. Boot icon setting :

This can choose to use the booting LOGO of car models, make the unit and original car match each other. Users can also upgrade their favorite booting LOGO. Specific operation method is as follows: Copy ( 16-bit color resolution is 800 \* 480 BMP ) format consistent picture to SD card, then plug into the card slot of GPS, touch [ ] icon to enter, after finding the corresponding file, touch [OK] to confirm. If the upgrade is successful, will appear [ upgrading is ok],otherwise it will prompte [upgrade failure ], and will show the format and resolution of the desired image and other information.late stage,pls add in password 123456.





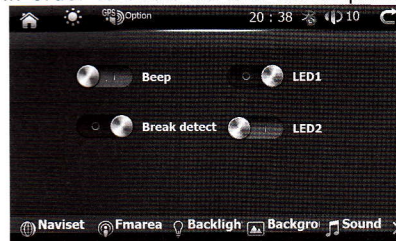
### 9. System information:

Show version number, touch calibration, restore the factory settings. From here to click, touch and calibrate, can enter into calibration interface. Method One: Click the calibration coordinates center for calibration, if calibration is not successful, will automatically enter into recalibration interface: If the calibration is complete, will automatically return : Method 2: Continuous press [  ] , [ ZOOM ] , [ ▲ ] [ ▼ ] four buttons on the remote control, then will appears " + " cursor of calibration, after touching the cursor correction, pls exit : method : can long press [ ▲ ] key on the panle for 8 seconds, then can calibrate



### 10. System Setting:

Reversing mirror image: Click to select, rear view image mirror: Key-press sound: click to choose, can open or close key-press sound, LED1/LED2: Click to select, can transform button LED color of blue and orange: handbrake detection: do not choose, in closing handbrake detection state, can watch the video in the driving process, but the law is not allowed in some countries, please keep in [ select state ] in order to avoid serious consequences .





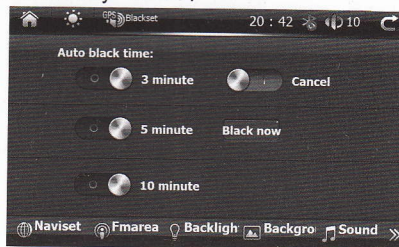
### 11. Steering Wheel Setting:

Steering wheel buttons can be customized settings, after completing setting, can directly operate the unit on the steering wheel. Operation Terms: Please press a key on the direction according to [pls press the key-press] prompt. Then according to [Please select key-press] touch the screen to choose the function you want to define. If successful, there will [Settings success] tips. This operation fully define corresponding function on the steering wheel keys. Note: [High-impedance], [low impedance] is designed to cater for different models. The defaults of the system is [ high impedance ], pls choose corresponding impedance according to pull-up resistor on the key-press of steering wheel of your car. Note: Restoring the factory and empty the steering wheel data needs to reset.



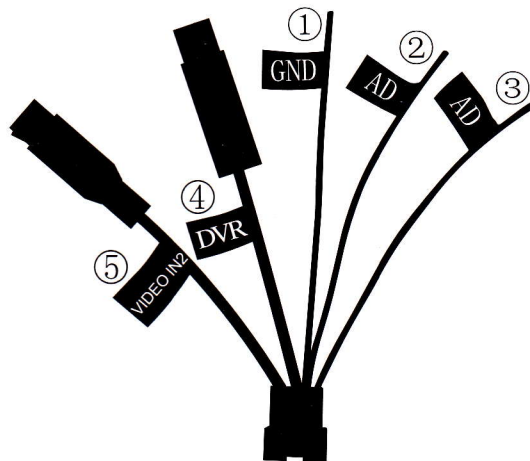
### 12. Black Screen Setting:

Black-screen setting is to set automatic black-screen time, there are several options: black screen after 3 minutes, black screen after 5 minutes, black screen after 10 minutes, immediately black screen, after canceling black screen, touch any place of screen can cancel black screen and returns steady status.



## Steering wheel key-press control functions

1. Connect 1 or 2 AD cables of the main-unit according to the requirements of car models
2. Different models need to choose high resistance



- ① The cable is for GND.
- ② ③ is to connect steering wheel, note: some cars are to connect one cable, some cars to connect two cables.
- ④ Connect DVR
- ⑤ Connect VIDEO IN2

## Humanized Functions

### 1、Visual reversing system

The unit is equipped with visual reversing system, but the premise is to connect the video signal of the reversing lens accurately and reliably to the tail line [CAM] RCA ( green ) mother head of the car. Visual reversing system is with automatic detection function. That in the state of shutdown ( The keys of Car is on, ACC is normal ) as long as the former video signal input from [CAM] that automatically boot and go into reversing state. If in the other state it will automatically return to the reversing status. Starting from the Sentence, need the system cut-in the photographed picture by lens to the screen to appear. Protect the safety of reversing. If not install the rear-view lens, will display black screen .

( Note: Reversing system only provides only assistant role, pls subject to the actual environment ! )

### 2、Brake detection function

Need brake test line in the harness of this unit and the brake signal line of original car dock. Using brake detection function, the video image is only visible in the parking brake state, avoid seeing the video in the state of driving, and affect driving safety. If saying in the state of driving, the co-pilot need to watch the video , can close handbrake detection function in [System Settings], pls comply with local laws and regulations .

### 3、The headlamps detection function

Need that the headlight test line of the harness of this unit and the headlight signal line of the original car docking. In night mode, automatic detect the state of car lights , when check that the car headlights is on, automatic dimming the backlight, to prevent the screen backlight too bright, affect the driver's view of line.


### 4、Off-screen

During night driving, in order that the drivers vision is not affected, safeguard the safety of driving, in any mode , longly press [MUTE] key , the system will turn off the display, but will keep the sound playback of the original mode, just touch the screen can exit the off-screen mode . Note: Also can enter the backlight settings to adjust.

### 5、Telephone mute function

Required that the phone mute of harness of this unit and the signal line of car phone dock, to realize the effect of automatical mute when call is coming.

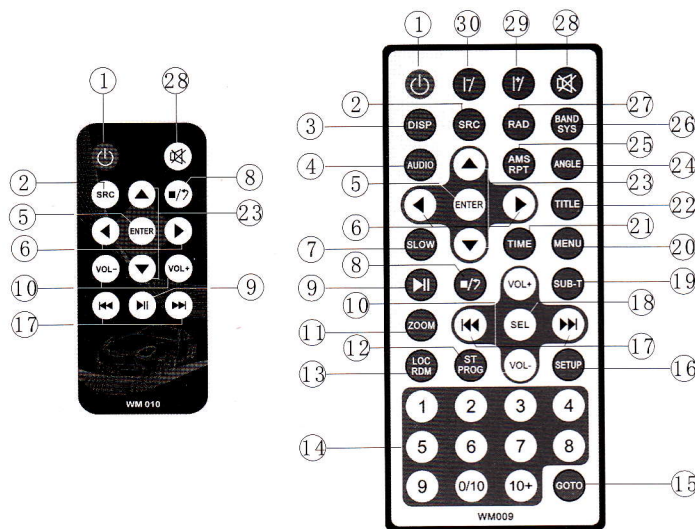
### 6、GPS navigation sound mute function

Touch the main interface [  ] icon you can turn off the prompts sound of the navigation, does not affect the sound of appreciating other audio and video, touch again and return to the state of original navigation prompts sound .



## Basic Operation

The function instruction of each part of the remote control



1. Power Switch Key.
2. Sound Source Key: Click to return to the main interface, click once again to return to the original state.
3. When playing DVD、USB、SD Card, press to display the current playback information.
4. [AUDIO] Channel conversion key: When playing DVD、USB、SD Card, press the key to realize language option (DVD), channel conversion (VCD).
5. [EmER] : Menu Operation Confirmation Key.
6. Left/Right Direction Key: When playing USB、SD Card, left or right to select the function play. When setting DVD, for left and right to move the cursor.
7. [SLOW] Slow Play: In the mode of playing DVD、SD Card、USB, for slow playing function.
8. Stop Key: When playing Discs、USB、SD Card, Press once for quasi-stop, then press play-key again, resume playback from the stop position, press twice for stop.
9. Play or Pause Key: When playing Discs、USB、SD Card, for mutual switching between play/pause.



- 10、Volumn increase/Volumn decrease.
- 11、[ZOOM] : DVD Image Zooming
- 12、[ST] : In radio mode,set Stereo/Monophony
- 13、[LOC] : In radio mode,set the local / remote station search
- 14、[Number Key]:0-9,.
- 15、[GOTO] : In DVD mode,for track selection function
- 16、[SETUP] : When playing Discs、SD Card、USB,press the key to enter into DVD system setting.
- 17、When playing audio、video,it is for choosing last song.In radio mode,for up/down semi-automatic station search:play audio、video,it is for choosing last/next tune.
- 18、[SEL] Acoustics characteristics setting key: Press this key repeatedly to select needed acoustics characteristics setting choice mode
- 19、SUB-T : In DVD mode,for subtitle function(need Discs support)
- 20、[MENU] : In any mode,can decript main menu,
- 21、[TIME] Time Key: In playback mode, press this key to display time , and then press, disappear .
- 22、[PBC/TITLE] : In VCD mode,playing VCD for PBC function,playing DVD for showing title menu.
- 23、Up or down direction key:When playing USB、SD Card,up or down for choosing song.
- 24、[ANGLE] : In DVD mode,for angle function(need discs support).
- 25、In DVD mode,set Repeat Play function.Note: AVI/MP4 remote control RPTno effect:In radio mode,short press for browsing function,longly press for automatic search stored radio function.
- 26、When radio, is for switching among bands for FM1/FM2/FM3/AM1/AM2 .
- 27、Radio key: In the state of other playing,press the key to enter into Radio state .
- 28、Mute on/off
- 29、Up Scroll off key:Press the key for Up Scroll off, (Note: Adjustable screen angle is effective,only limit sliding model)
- 30、Down Scroll off key:Press the key for down Scroll off, (Note: Adjustable screen angle is effective,only limit sliding model)

## Functions of Keys on the Panel

1. Press [▲] to eject the disc.
2. Left knob compound key
  - Rotate the knob clockwise to increase the volume or counter-clockwise to decrease the volume. Press the knob to switch to mute.
  - When the device is powered on, hold the knob to close the TFT screen and then repeat to display the TFT screen.
  - When the device is powered off, press the knob to start the device and hold the knob to shut down the device.

Note: You need to press the key rather than rotate the knob to start certain models.
3. [▶▶] / [◀◀] next or previous program.
  - When you play a disc, USB media or SD card, press these keys to switch to the next or previous sound track.
  - When you watch TV, press these keys to switch to the next or previous program.
  - When you listen to the radio, press these keys to tune to next the or previous channel, and hold these keys to semi-automatically search the next or previous channel. When you find a desired channel, keep any of the figure keys 1 to 6 pressed down to pre-store the channel.
4. Press [SRC] to return to the main menu or to power on or off the device
  - Press this key to exit the current source mode and return to the main menu. Press this key again to return to the previous source mode.
  - Press or hold this key to start up or shut down the device.
5. [BAND] key
  - In radio mode, press this key to change AM or FM.
  - In DVD mode, press this key to change DVD format.
  - In TV mode, press this key to change TV format.
6. [RESET] key : When the system fall in disorder or crashes, press [RESET] key to revert to factory settings.
7. Press [GPS] to enable GPS mode.
8. Press [VOL-] to decrease the volume.      9. Press [VOL+] to increase the volume.
10. Press [MUTE] to switch to mute mode.
11. Press [↕] to scroll the screen. ( Note: The adjustable screen angle is limited.)
12. Press [📞] to hang up a call.      13. Press [📞] to answer a call.

## Remote Control Use

### Remote Control Operation

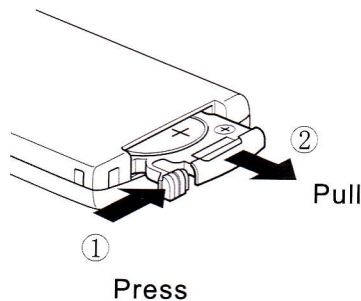
#### 1. Precautions:

- ◆ The remote control applies lithium battery (CR2025).
- ◆ The service life of battery is one year in normal use. When the remote control cannot work normally, pls replace the battery.
- ◆ Do not place the remote control in high temperature environment or direct sunlight, otherwise, the remote control can work normally.
- ◆ When installing the battery, pls make sure that the negative and positive terminals of the battery are properly connected.
- ◆ Do not pick up the battery with any metal plier to prevent from short circuit.

#### 2. Remove battery

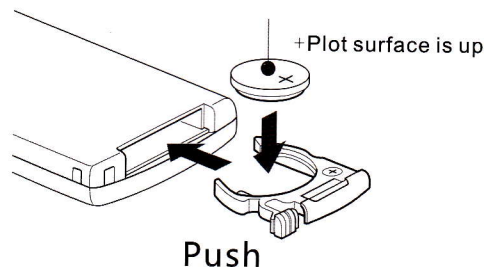
Remove the battery from the back of the remote control as shown below.

4. When use Initially, pls pull out the insulation film of battery buckle position, then can use normally .



#### 3. Insert battery

Place the anode(+) and cathode(-) of lithium battery with (CR2025) Lithium battery properly as shown below:



### Common Troubleshooting Guide

Fault	Cause	Solution
Cannot power on	The fuse of power supply is burned down	Change the same fuse as this main unit
	Maloperation of micro-processor caused by other factors	After press RESET key on the panel with small nib to restart the unit
The information set before completely loss after power on/off.	Wrong connection of positive wire BATT of ignition wire ACC.	Reconnect swap wire
The remote control does not work	The battery power is exhausted.	Change the battery of the remote control.
The effect of radio is bad	The antenna of car does not stretch out, the grounding of antenna is not good.	Check the connection of radio antenna control line ANT, re-check the connection of antenna and ground wire.
The disc cannot be put in.	There is already one disc in the unit.	Press the button to pop out the disc inside and insert the new one.
The disc cannot be played.	The disc is scratched.	Change a fine disc
	The front and back sides are put contrarily.	Put the disc with logo up in the unit.
	The laser head is dirty.	Clean it with laser head cleaning disc
Language/Title switch is unavailable.	Only one language/Subtitle is burnt on the disc.	The disc without many languages and subtitles cannot switch language/subtitle.
No image	The video cable from main unit to TV is not connected properly.	Re-connect it.
Malposition of touch screen	The touch screen is not properly calibrated.	Calibrate the touch screen (Refer to Page 20 of system information-touch screen calibration)
Function in confusion	Maloperation of micro-processor caused by other factors	After press RESET key on the panel with small nib to restart the unit

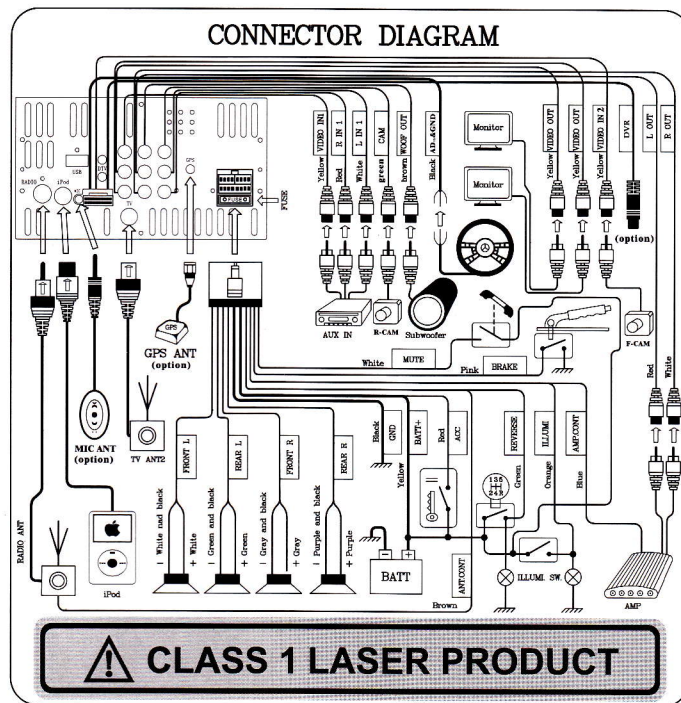


## Connector Diagram

### Precaution:

- ◆ This unit is used for negative ground 12V vehicle systems, pls install depressurization equipment if install the unit in the front of trucks, buses or coaches and vehicles with 24V .
- ◆ Pls disconnect the negative terminal power-cable of the battery before installation to prevent from short circuit of electrical systems.
- ◆ Pls place the wire in fixable place to avoid contacting any mobile parts such as handbrake and gear level. Do not place the wire in heat source region, such as vicinity of heating outlet and so on, otherwise, heat source will arising from insulation layer melting or abrasion of connecting wire to cause short circuit of connecting cable and Car body.
- ◆ When change the blown fuse, must use required( 15A) fuse. Use high-capacity rated fuse or no use fuse to directly connect, easily lead to fire or damage the equipment.
- ◆ Do not lead the yellow wire through the mounting hole and into engine cabinet before installing battery, otherwise, it can cause the damage of power cable and lead to short circuit of power cable and car body.
- ◆ Do not apply the power cable of other devices to this unit, otherwise, it may cause overloading and lead to overheating.
- ◆ Pls wrap the unused speaker lead wire with insulating tape to avoid short circuit. Make sure that keep unused speaker leads insulation , otherwise it will cause short circuit .
- ◆ Make sure that keep any exposed power cable insulate, pack all wire well to avoid that any terminal blocks and metal parts of the unit touch, and prevent short circuit
- ◆ If ACC position is unavailable in auto ignition systems, pls connect the ignition lead to "ON/OFF" power supply with ignition switch key.
- ◆ When power-on, the external amplifier control signals will be output through AMP.CONT lead, if the unit connects external amplifier, pls do not connect AMP.CONT lead to amplifier power port , otherwise, it will cause electric leakage and fault.
- ◆ The output terminal of the loud speaker is forbidden to be grounded, otherwise, it may cause damage to the amplifier. Pls avoid using 3 line type loud speaker system with shared ground wire and connecting the speaker wire to the car body.
- ◆ The loudspeaker connected to the unit must be of high power, its minimum rated voltage is 50w, resistance value is 4Ω, do not connect directly the leads of several loud speakers or resistance value beyond the limited scope, otherwise, it will lead to short circuit and damage the loud speaker.

## Connector Diagram:



**Packing List****Packing List:**

Item	Name	Quantity	Remark
1	Remote Control	1pcs	
2	Install Holders and Screws	1set	(Optional)
3	Power Cable	1pcs	
4	USB Cable	1pcs	
5	iPod Cable	1pcs	(Optional)
6	Manual	1pcs	
7	TV Antenna	1-2pcs	(Optional)
8	18P Cable Group	1pcs	
9	GPS Antenna	1pcs	
10	RCA Adapter cable	1pcs	(Optional)