

# Instruction Manual



## Important Notice

1. Please read the instruction manual carefully before using the unit, in case of wrong operation caused.
2. When you want to change other mode from GPS mode, please use mode button on the remote control or power button on the unit to switch.
3. Please do not use any strident goods or apparatus to touch panel and that will break the touch screen.
4. There are two modes of GPS for user selection, please carefully refer to instruction manual on page 10.
5. Please long press play/pause key to turnoff TFT panel, Avoid the TFT interfere line of sight. but sound working order.
6. When the Unit working abnormality, please press RES key to reset UNIT.

## Function Index

### Main Function Instruction:

- 1) Built-in amplifier & DVD, 4x60W channel power output
- 2) ISO 2 DIN size (100mm)
- 3) 7" touch panel
- 4) Any screen angle adjustment
- 5) GPS navigation of outside connection, control GPS directly by panel, input by hand.
- 6) Compatible with  
DivX/DVD/DVD-RS/DVD+RS/DVD\_RW,CD\_R/CD\_RW,MP3/MP4,WMA,JPEG
- 7) Compatible with PAL/NTSC/SECAM TV system, 100 stations preset
- 8) Support USA/EUROPE/RUSSIA radio system
- 9) Support SD card reader
- 10) Support USB 2.0
- 11) Preset manifold audio/video system
- 12) 1x audio input
- 13) 1x video input
- 14) 2x audio output
- 15) 2x video output
- 16) 1x super-woof audio preamp output
- 17) Rear view camera input
- 18) .Wireless remote control
- 19) 18FM / 12AM presets

### Optional Function Instruction:

- 1) Support Bluetooth adapter for hands-free calls with compatible cell phones
- 2) Compatible SECAM\_L TV system
- 3) Can customize RUSSIA OSD menu
- 4) RDS radio system

## A.Touch Screen and Function Button Instruction



### 1. Touch Screen Instruction:

1) A touch area is main interface for enter, or return to main interface from current mode, suitable for radio/TV/DVD mode operation.

2) B touch area only suitable for DVD mode operation, no effect for other modes.

### 2. Button Function Instruction

(1).Power(mode) button: press once to power on, then short press it to change mode, long press is power off.

(2).Reset button: when the unit with Bluetooth

(3). IR Sensor

(4).Seek button: on DVD mode, short press to rearward a chapter/track, long press to fast return. On TV/radio mode, short press to return last station, long press for three seconds to scan previous frequency and will be stopped when successful scan the station.

(5).Seek button: on DVD mode, short press to forward a chapter/track, long press to fast forward. On TV/radio mode, short press to forward next station, long press for three seconds to scan next frequency and

will be stopped when successful scan the station.

(6).VOL button: decrease button for volume, short press to decrease once, long press to decrease continuously.

(7). SEL button: menu enter button

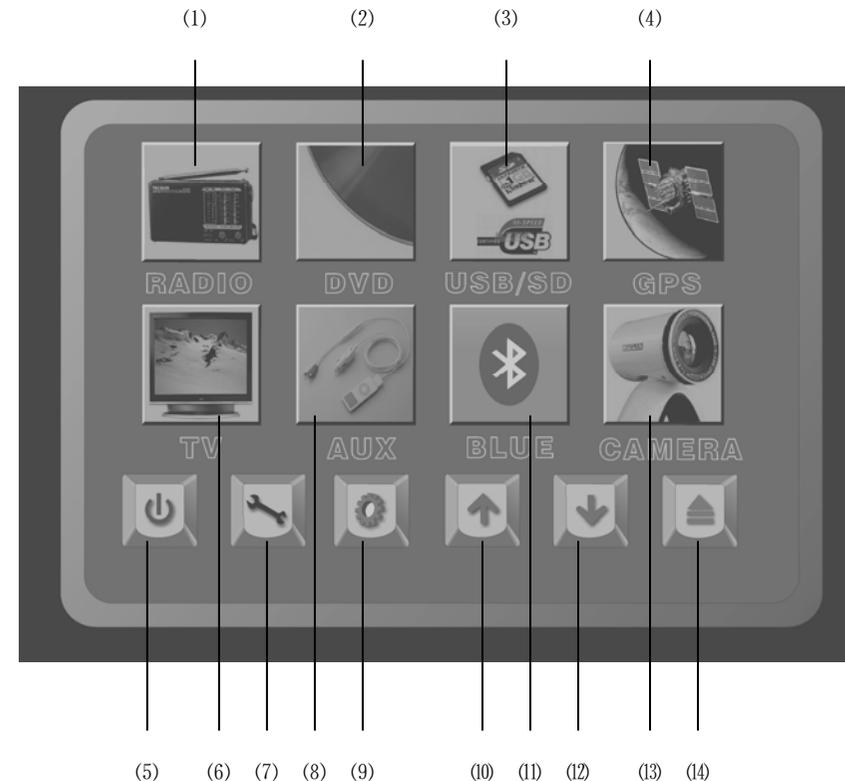
(8).TFT\_DN button: for screen slide down button, short press to slide down once, long press to slide down to the bottom.

(9).TFT\_UP button: for screen slide up button, short press to slide up once, long press to slide up to the top.

(10).PLAY(MUTE) button: on DVD mode, its means play/pause function, on other modes are mute function.

(11). EJECT button: eject disc

## B. Main Interface Introduction



1) Radio mode touch button

2) DVD touch button (when disc inside then the button can be effect)

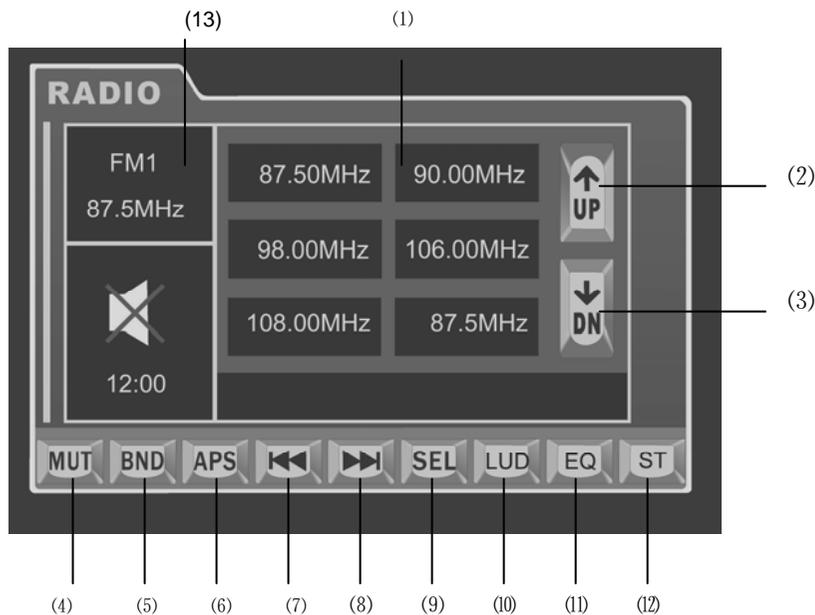
3) .USB/SD touch button (when USB/SD card insert then the button can be effect)

4) GPS touch button (when GPS connected then the button can be normal used)

- 5) Power on/off touch button, touch once will power off.
- 6) TV receiver touch button
- 7) User general setup touch button, please do not setup inner parameter so that its will affect the using effect.
- 8) AUX Output touch button
- 9) User normal setup touch button, which mainly used for setting image and sound effect.
- 10) Screen slide up touch button
- 11) Bluetooth function touch button, when Bluetooth function available for the unit then the button can be normal used.
- 12) Screen slide down touch button
- 13) CDC/DVDC function touch button, when CDC connected then the button can be used.
- 14) Eject touch button, insert or eject disc when DVD playing.

### C. Radio Operation Instruction

#### 1. Interface Instruction



- 1) Frequency display area
- 2) Up screen button
- 3) Down screen button
- 4) Mute button
- 5) Band button
- 6) Auto/manual scan button, touch once the station will be manual scanned and stored, touch 1.5

seconds the stations will be auto scanned and stored.

- 7) Rearward scan button, touch once to rearward scan, touch 1.5 seconds to auto scan and its will be stopped when stations scanned.
- 8) Forward scan button, touch once to forward scan, touch 1.5 seconds to auto scan and its will be stopped when stations scanned.
- 9) Select button, enter to user normal setup system to set sound and image effect.
- 10) Treble/bass control button, you can select rock/pop/classic etc sound effect
- 11) Sound effect control button
- 12) Stereo control button
- 13) Current receive frequency display area

#### 2. Manual adjustment station

Press the forward or rearward scan button on the touch screen, you can select the station frequency step by step up or down, long press over 1.5 seconds to auto scan status and it will be stopped until the effective station searched and stored.

#### 3. Auto adjustment station

Press A/PS button for 1.5 seconds on the touch screen, the unit will enter to auto scan status, and will store the effective stations to the relevant band FM1/FM2/FM3 (1-6). And the stored stations will be displayed on the TFT panel preset frequency area. Then scan finished, the unit will start to play the first station on FM1.

#### 4. Select preset station

Press the station stored before on the touch screen, and selected station will be displayed on the preset frequency area, the current display area will display the playing station.

#### 5. Turn on/off stereo function

If the received signal is weak, you can press ST button on touch screen to turn off stereo function and change to single receiving. Then the stereo noise will be restrained and make it more clearly.

When receive more stronger signal, then you can turn on ST, then now the "ST ON" will be showed on the screen, and you can receive stereo station program.

\*on AM mode, this function not effective.

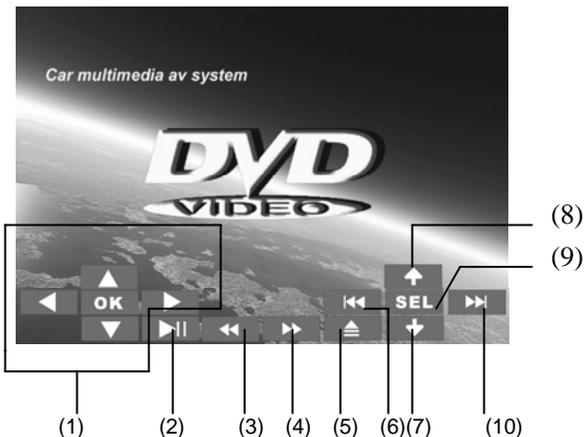
### D. DVD Operation Instruction

#### 1. Insert/Eject disc

You can insert/eject disc whatever mode, when you want to insert disc just press the eject disc button on touch screen, and the panel will auto slide down, insert the disc, the unit will auto slide into the disc, at the same time DVD mode will be displayed on the screen.

If you want to eject disc from the unit, just press eject function on touch screen, the panel will be auto slide down and the disc in the enter mount, if you don't take off the disc within 5-8 seconds then the disc will be auto slide into again.

#### 2. DVD Interface Instruction



(1) Up/down cursor selection button, when playing MP3 cursor position is left/right moving, after selecting and press OK button for confirmation.

(2) Play/pause button

(3)Rearward button, touch once its will quick rearward by 2/4/8/16/20 speed, press play/pause button to cancel quick rearward.

(4)Forward button, touch once its will quick forward by 2/4/8/16/20 speed, press play/pause button to cancel quick forward.

(5)Enter/eject disc button, when disc inside then press this button the panel will be auto slide down and disc will come out. When no disc inside then press this button the panel will be auto slide down and open the disc mount then now you can insert disc.

(6) The previous chapter/track, press this button to play previous chapter/track

(7)Slide down panel, press once to slide down panel

(8) Slide up panel, press once to slide up panel

(9) Audio/video adjustment button, press this button to enter audio/video adjustment menu

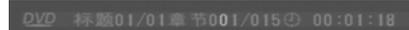
(10)The next chapter/track, press this button to play next chapter/track

### 3. Select chapter what you need

(1) When playing disc, you can press up/down chapter on the touch screen or panel for selection, and you can also use remote control to select chapters.

Note: according to multi chapters DVD disc, its will not be effective by using remote control figure buttons for selection.

(2) Press GOTO button on remote control then below menu will be displayed.



then press left/right button to move cursor, you can select title/chapter/play time, and then press figures to enter your target position, then press confirm button to play the relevant chapter.

### 4. Forward/rearward

Press forward/rearward button on touch screen, press once its will forward/rearward by x2/x4/x8/x20 speed, long press forward/rearward button on remote control can also operate the above function.

### 5. Repeat playing

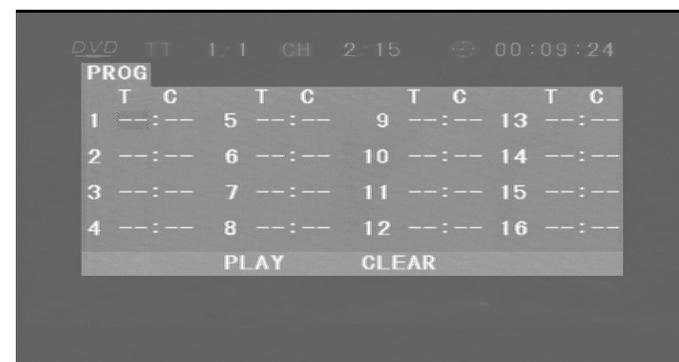
When disc playing, press AMS button on the remote control, the original chapter will be repeat played, press again all of chapters will be repeat played. Then press again to cancel repeat playing.

### 6. Random playing

When disc playing, press LOC(RDM) button on the remote control, the unit will be on random playing status, press again to cancel random playing.

### 7. Program playing

When disc playing, press ST(PROG) button on remote control, the panel will display below menu.



Then you can input whatever chapter you like by the relevant number, the direction key can be adjusted up/down/left/right. When you programmed your favorite songs, press PLAY button to play songs one by one.

### 8. DVD setup

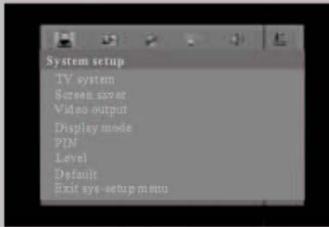
On DVD mode, you can special setup DVD, the setting method as following.

Press MENU button to enter user setting main menu, then select DVD setup by up/down button and do details setting.

Note: On DVD menu, menu up/down button is for up or down moving option, left/right button is for left or right moving option, confirm button is for confirmation effective. Press MENU button to exit DVD setup at any time.

# System Setup

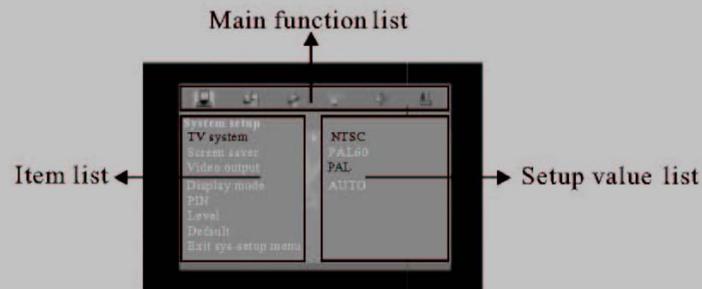
To setup the mainframe, press SETUP key to enter system menu:



You can set items of child lock, display control, sound control, language selects, default etc. Operation as below:

1. Use LEFT/RIGHT key to select function in Main Function List, the Item list appears.
2. Use UP/DOWN key to select item, press ENTER key enter the value list of the item. Then press UP/DOWN key to select the wanted value and press ENTER back to item list.
3. After setup, select Exit Setup Menu among items, or press PLAY key to exit the system setup menu.

System setup menu as below:

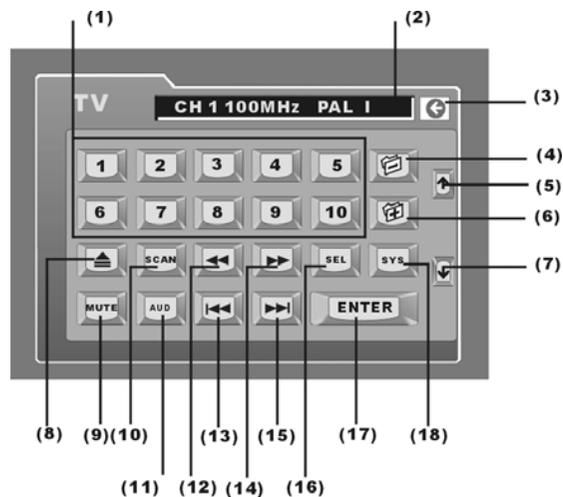


The system default of this machine as below

| Menu             | Item   | Default   |
|------------------|--|---|
| System Setup     | TV system  | NTSC/PAL  |
|                  | AUTO play  | ON/OFF  |
|                  | Screen mode  | 4:3PS / 4:3LB / 16:9  |
|                  | PIN  | Use digit key input a new PIN then confirm, system will enter child PIN lock. (Default PIN is 9999) |
|                  | Age control  | KID SAFE / G / PG / Pg13 / PG-R / R / NC-17 / <u>Adult</u>  |
|                  | Default  | Reversion   |
|                  | Exit setup menu  | Enter the item then press ENTER key to exit setup menu  |
|                  | Language Setup   | Display   |
| Audio            |  | Chinese/English/Japanese/French/Spanish/Portuguese/Latin/Gwrman                                     |
| Subtitle         |  | Chinese/English/Japanese/French/Spanish/Portuguese/Gwrman/off                                       |
| Menu             |  | Chinese/English/Japanese/French/Spanish/Portuguese/Gwrman/Latin                                     |
| DIVX(R) VOD      |  | REGISTER CODE:HP7MERGV  |
| Exit setup menu  |  | Enter the item then press ENTER key to exit setup menu  |
| Audio Setup      | Data output  | SPDIF/ OFF<br>SPDIF Source Code<br>SPDIF/PCM  |
|                  | Tone   | # / +4 / +2 / 0 / -2 / -4 / b   |
|                  | Exit setup menu  | Enter the item then press ENTER key to exit setup menu  |
| Video Setup      | Brightness   | 12 / 10 / 8 / 6 / 4 / 2 / 0   |
|                  | Contrast   | 12 / 10 / 8 / 6 / 4 / 2 / 0   |
|                  | TINT   | +6 / +4 / +2 / 0 / -2 / -4 / -6   |
|                  | Color  | 12 / 10 / 8 / 6 / 4 / 2 / 0   |
|                  | Sharp  | 8 / 6 / 4 / 2 / 0   |
| Exit setup menu  | Enter the item then press ENTER key to exit setup menu |   |
| Dolby data Setup | Output mode  | Line out/ RF adjust   |
|                  | Dynamic range  | FULL<br>6/8<br>4/8<br>2/8<br><u>OFF</u>   |
|                  | Dolby digital  | Stereo/Left/Right/Mono  |
|                  | Exit setup menu  | Enter the item then press ENTER key to exit setup menu  |

## E. TV Operation Instruction

1. On TV mode, TFT LCD display instruction



(1). Preset frequency figures button

Each figure button store the relevant frequency channel, touch relevant figure button to select your favorite TV channel, total 100 channels available.

(2). Current TV channel display area

(3). Return button, return to main interface

(4). Previous folder, touch once to return to previous folder

(5). Panel slide up button

(6).Next folder, touch once to enter to next folder

(7).Panel slide down button

(8). Eject button

(9).Mute button

(10)Auto scan and store button, press once to auto scan all relevant TV channels and store to figure buttons

(11) Audio system switch button

(12/14).Channel fine tune button, you can turn up the current channel up or down fine tune

(13/15). Stored channel turn up button , press this button to increase CH1 to CH100

(16).Audio/video effect adjustment menu

(17). Confirm button, use for current option confirmation and enter to TV channel mode

(18). Picture system switch button

2. Auto scan and store channel

(1). Press TV function button on main interface to enter to TV status

(2) Press SCAN button on main interface, TV is starting to auto scan and store channel to figure buttons, after scanning and the unit start to play CH1 program

(3) Now you can search your favorite channel using up/down button

3. Manual scan and store channel

(1).On TV mode, press up/down channel tune button to search what channel you want

(2). Searched effective channel, long press figure button for 1.5 seconds then you can store the channel what you searched to the relevant figure buttons

4. TV picture/ system switching

(1) Picture system change

If the current picture system is different from unit setting system, you can press SYS button on touch screen or BAND(P/N/S) button on remote control to switch to relevant picture system

(2) Audio system change

If the current audio system is different from unit setting system, you can press AUO button on touch screen or AUDIO button on remote control to switch to relevant picture system

## F. GPS Function Operation

(Instruction: when GPS data cable normal connect to GPS, at the same time map card is also inserted then you can use it normally)

1. GPS data cable insert GPS hole of rear side, at the same time make GPS video line connect to GPS video input on the unit
2. Touch GPS function button on main interface or directly press GPS button on remote control, you can start navigation function. (navigation interface is different from others due to different map)

**\*Important Instruction:** cause different requests from different user, we choose two navigation mode—GPS1 & GPS2

a. GPS1 mode

b. GPS2 mode

When GPS & DVD working at the same time, only on GPS mode then you can listen to navigation voice prompt and watch navigation map, on other mode(like DVD/TV etc) which can not display current picture and sound

b. GPS2 mode

When GPS & DVD working at the same time, when navigation voice prompt come out then the system will auto switch to GPD mode, and will display the current map and listen to voice prompt

3. For GPS other function instructions please refer to GPS navigation system instruction

## G. AUX Operation Instruction

This function mainly use for connecting AV input, when you use this function please make sure video output connect to audio line then will work normal

## H.USB/SD card Operation Instruction

1. USB operation instruction

On any mode, you insert USB to input/output, the unit will auto play all multimedia programs in USB, like MP3/MP4 all format files.

2. SD card operation instruction

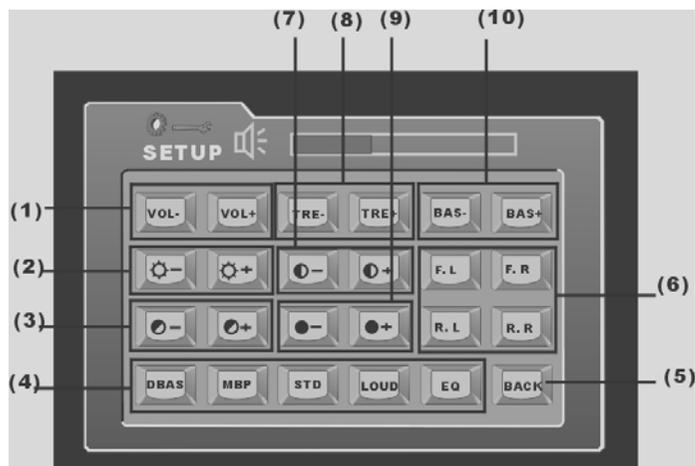


SD CARD (BACK ON TOP)

- 1). Press down button on panel or press OPEN button on remote control to slide down panel to the bottom
- 2). Insert SD card to SD jack(back side upturned), the system will auto switch to SD card mode
- 3). Now you can adjust panel to a good angle and enjoy all pictures and format files in SD card

### I. User Normal Setup Menu

User can random set pictures and sounds



#### 1. Function Key Button

- (1). Vol-/Vol+ adjust button
- (2). Luminance adjust button
- (3). Color adjust button
- (4). Preset AV effect adjust button
- (5). Return button
- (6). Front left/front right/rear left/rear right sound adjust button
- (7). Contrast adjust button
- (8). Treble adjust button
- (9). Acutance adjust button
- (10). Bass adjust button

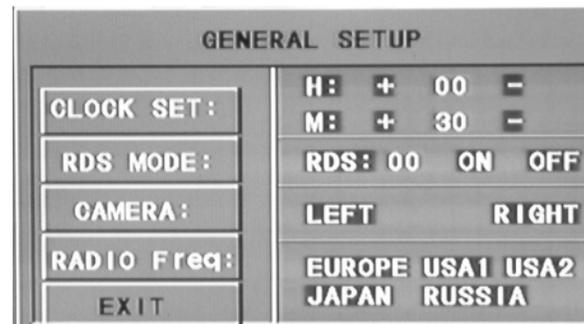
#### 2. Adjust Method

If you want to adjust relevant item, just touch relevant button to adjust relevant parameter, after finished then press return to exit

### J. User General Setup Menu

Important Instruction: when you adjusted all parameters on general setup then it will affect the working mode for unit. So we suggest user careful to use inside functions and make you inconvenience cause. If it not work normal after adjusting, then you can press reset button on the unit to be normal status.

#### 1. General Setup Menu



#### (1) Clock adjust

Select clock menu and then touch "+" or "-" to adjust clock. Then finished to press EXIT

#### (2) RDS setup

Select RDS mode: then you select ON button and now you can receive RDS radio

#### (3) Rear camera switch setup

Select CAMERA: touch LEFT or RIGHT button to switch to relevant rear camera

#### (4) Radio frequency setup

Select RADE FREQ to setup relevant frequency according to actual region

### Optional Function

**Below function only for normal working unless the unit with this function**

### K. Bluetooth Operation Instruction

(this function should be match up one GSM cell phone with Bluetooth function)

#### 1. Bluetooth interface instruction



- (1) Bluetooth sound adjust menu enter button
- (2) communication button
- (3) Back up button
- (4) Telephone number display area
- (5) Dialing area

## 2. Operation steps

### (1) Communication

Get ready one GSM cell phone with Bluetooth function, according to mobile instruction to operate, find Bluetooth function enter button, and select Bluetooth adapter, then touch receive button on touch screen.

Now Bluetooth is starting to connect unit

**During connecting cell phone will prompt to request receive number: now you enter 8888**

(according to different type of Bluetooth cell phone, mightbe you need to more receive then can be success)

When LINK ON displayed on the panel then it can work normally

### (2) Dial telephone

When successfully connected, you can dial telephone using figure buttons on panel then enter green color button for out call. Now you can talk with your friend, you can listen to your friend's sound from car AV system. When you finished call then you just press red color button

### (3) Receive telephone

When a call coming, telephone number will be displayed on the telephone area. Now you can press green color button to receive call then finished just to press red color button to cut off

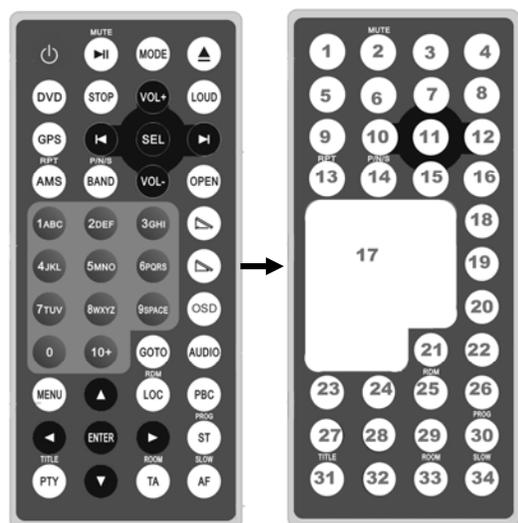
## 3. Other Instruction

When unit on other working mode not Bluetooth mode, but a call coming, then the interface on panel will auto switch to Bluetooth mode, after call finished then its will auto return to other status before Bluetooth mode

### L. Remote Control Function Instruction

Note: please take off a battery plate before you using remote control

#### 1. Remote control button map

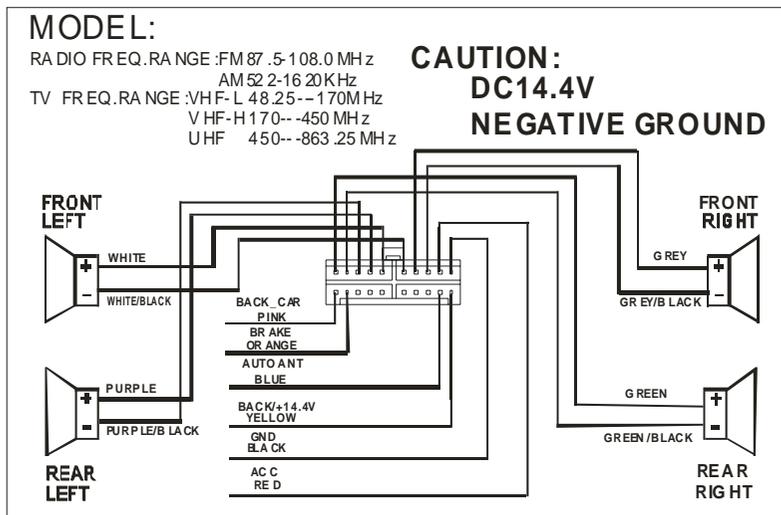


## 2. Function instruction

- (1) Power on/off button, press once to turn on/off unit
- (2) Mute/pause button, on DVD mode this button is for pause function, but on other mode is for mute function
- (3) Mode switch button, press once to switch to RADIO/DVD/AUX/TV/GPS
- (4) Eject button, when disc inside then press this button to eject disc. If not press this button to insert disc
- (5) DVD button, press this button direct to enter DVD mode
- (6) DVD stop button
- (7) Volume +
- (8) Loud: Treble/bass control button
- (9) GPS navigation button
- (10) Rear scan button, on RADIO/TV mode to rear scan frequency, long press 1.5 seconds to auto scan. On DVD mode to turn previous chapter, long press to quick rearward
- (11) Select button, to be adjust sound mode and switch to VOL/TRE/BAS/BAL/FAD
- (12) Forward scan button, on RADIO/TV mode to forward scan frequency, long press 1.5 seconds to auto scan. On DVD mode to turn next chapter, long press to quick forward
- (13) Auto/manual scan button, on RADIO/TV mode to auto scan. On DVD mode to be repeat function
- (14) Band switching button, on RADIO mode to switch to FM1/FM2/FM3/AM1/AM2
- (15) Volume -
- (16) Open/close panel, press once to slide up panel to the top side, or slide down to be bottom side
- (17) Figure buttons, on RADIO/TV mode to select station/channel, on DVD mode to select chapter
- (18) Panel slide up button
- (19) Panel slide down button
- (20) OSD button, on DVD mode to display current chapter playing
- (21) Select chapter button, on DVD mode to select chapter to play on disc
- (22) Audio switch button, on TV mode to switch audio, on DVD to switch left/right sound
- (23) DVD setup button to be general setup
- (24) Menu up select button
- (25) LOC button, on radio mode to be long/short range control, on DVD mode to be random playing
- (26) PBC button, on VCD mode to be view playing, on DVD mode to be menu playing
- (27) Menu left select button
- (28) Confirm button
- (29) Menu right select button
- (30) ST button, on radio mode to be stereo switch, on DVD mode to be memory playing
- (31) PTY button, on RDS mode to be PTY function, on DVD mode to be TITLE playing
- (32) Menu Down select button
- (33) TA button, on RDS mode to be TA message on/off function, on DVD mode to be picture zoom/reduce function
- (34) AF button, on RDS mode to be AF message on/off function, on DVD mode to be picture slow function

## M. Connecting Map

Speaker outline connecting map



### Important Instruction

- a. Brake high level have valid, please connect brake wire from to car brake test wire, when car brake open, the TFT panel will turn off. If nonuse this function, please connect to Ground of this line.
  - b. Back car high level valid, the TFT panel will display back video when back car, please connect back wire form to back car test wire on car unit.
2. Audio video wire connect map  
 Audio video wire please look at label from wire.

## N. Trouble Shooting

As the machine is control by micro-computer, if any functional problem happened, please plug off the power wire and turn on the machine after a few seconds to reset the computer. If it is normal at that operation, the machine can be used.

| The common problem on playback                   | The repairing method and notes   |
|--|--|
| No power   | 1. Check the output wire is connected correctly<br>2. The key of the car is inserted and turn on?  |
| It can not play after pressing PLAY key          | 1. Check whether signal side of disc is correct or not;<br>2. If the disc is very dirt and scratched, sweep the disc with the soft cloth or change with the good disc.   |
| No image/No color                                | 1. Check if play VCD or DVD disc. If it is CD disc, display no picture;<br>2. Whether the bright and color are adjusted on the proper location or not;<br>3. If the external connecting TV is no color, please check the color system setting. |
| The image with the lumpy color of pause and skip | If the quality of disc is low, please choose another good one.   |
| While playing, loudspeaker is no sound           | 1. Check the output wire is connected correctly?<br>2. If the machine is in mute status?   |
| No sound with the other connected equipment      | 1. Please check whether all the external equipment is correctly connected<br>2. Check the input state of the relevant equipment.   |
| Sound track can not be changed                   | There is only one audio setting in some disc.  |
| No character appear on screen                    | 1. This function is lied on the adaptability of the disc and some discs without subtitle;<br>2. Please select one subtitle.  |
| The remote control lose function                 | 1. Check if the battery of remote control is loaded correctly;<br>2. Whether the battery is need to be changed;<br>3. Please aim at the remote control signal receiver window and operate.   |
| Receiving no TV signal or too weak signal        | Whether antenna adjust correctly or too weak signal received at the receiving place  |

## O.The technical parameters

### DVD Technical parameters

|                                 |   |
|---------------------------------|---|
| Laser wave length               | DVD 650nm ; CD 780nm  |
| Pick up                         | HITACHI 1200W   |
| Compatible disc                 | MPEG-4(DIVX)、DVD、VCD、CD、MP3、WMA、JPEG CD、CD-R、CD-R/W、DVD+R/-R    |
| Shockproof                      | DVD 3seconds; VCD/CD 10seconds; MP3 90seconds                   |
| Output level of audio           | AUDIO: 1.2V±0.2;  |
| Frequency response              | 20Hz-20KHz  |
| Audio signal-noise ratio (S/N)  | ≥80dB   |
| Dynamic scope                   | ≥80dB   |
| Output level of video           | 1.0V±0.2Vp-p  |
| Bright signal-noise ratio (S/N) | >56dB   |
| Color signal-noise ratio (S/N)  | >60dB   |
| TV system                       | PAL/NTSC  |
| Menu language                   | Chinese/English/Japanese/French/Spanish/Portuguese/German/Latin |

### TV technical parameters

|                   |  |
|-------------------|--|
| Receiving channel | DK/I 49.75MHz~847.25MHz<br>BG 48.25MHz~847.25MHz                                   |
| Audio system      | DK <input type="checkbox"/> I <input type="checkbox"/> BG <input type="checkbox"/> |

### Radio technical parameters

|                          |                |
|--------------------------|----------------|
| FM frequency range       | 87.5MHz~108MHz |
| AM frequency range       | 522KHz~1620KHz |
| FM sensitivity           | ≤15dB          |
| AM sensitivity           | ≤26dB          |
| Signal-noise ratio (S/N) | ≥80dB          |
| Distortion               | ≤3%            |

### Technical parameters of TFT-LCD screen

|                        |                        |
|------------------------|------------------------|
| LCD screen             | TFT-LCD                |
| LCD screen Ratio       | 16:9                   |
| Spot pitch             | 0.107(H)×0.372(V)      |
| Resolution             | 1440(H)×234(V)         |
| Contrast               | 150:1                  |
| Bright                 | 300cd/m <sup>2</sup>   |
| Response speed         | R:30/F:50              |
| Viewing angle          | U:15/D:35 L/R:55       |
| Picture mode           | 16:9                   |
| Original luminous lamp | CCFL                   |
| Lamp longevity         | Over 10 thousand hours |

### Technical reference

|                        |                            |
|------------------------|----------------------------|
| Power supply           | <b>DC 13.8V</b>            |
| Outer dimension        | 176mm(W)×100mm(H)×183mm(D) |
| Net Weight             | About 2500g                |
| <b>STANDBY CURRENT</b> | <b>&lt;15MA</b>            |

#### Notes:

1. Due to continuing improvements, the features and design are subject to change without notice.
2. For the machine work normally, it is recommended to use the attached accessories and optional parts.