

# MACROM

English



## MDV5551R

DVD/VCD/CD/MP3 player with RDS FM/AM tuner

# INSTRUCTION MANUAL

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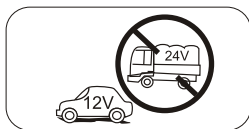
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## Basic knowledge

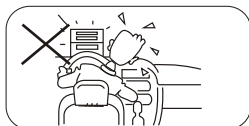
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# Safety precautions



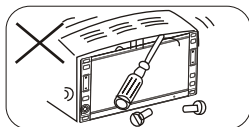
1. Only connect the unit to a 12-volt power supply with negative grounding.



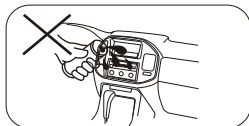
2. Never install this unit where the operation & condition for safety driving is restrained.



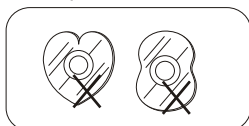
3. Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except using for rear view video camera.



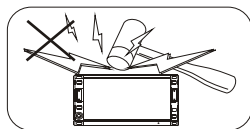
4. Never disassemble or adjust the unit without any professional operation. For details, please consult any professional car shop / dealer for inquiry.



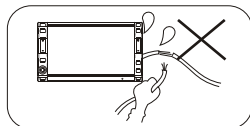
5. Never expose the unit, amplifier, and speakers to moisture or water for preventing electronic sparks or fires.



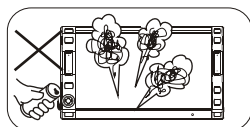
6. Never use irregular discs.



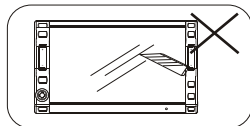
7. No fierce impact to the LCD monitor when it is in open position for preventing the damage to any mechanisms inside.



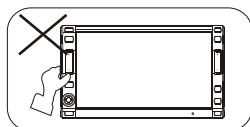
8. please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.



9. Please power off this unit at once and send it back to the after-sales service center or the dealer / distributor you purchased from if one of the following symptoms is found:  
(a). No audio output; (b). No image display;  
(c). Water or other obstacle enters the unit;  
(d). Smoking; (e). Peculiar smell



10. To prevent the damage to the screen, avoid touching it with sharp hard objects.



11. The monitor employs auto motorizing mechanism, please don't push, pull, or swivel the monitor manually to prevent damage to the core mechanism.

# Notices

1. If the front panel or the monitor is squalid, please use a clean silicone cloth and neutral detergent to wipe off the spot. Using a rough cloth and non-neutral detergent such as alcohol for cleaning may result in scratching or decoloration.
  2. If any abnormal behavior of the unit is found, please refer to troubleshooting guide of this manual. If no relevant information is found, please press the [RESET] key on the front panel to resume factory default.
  3. If you have parked the car in hot or cold weather for a long time, please wait until the temperature in the car becomes normal before operating the unit.
  4. Using in-car heater in low temperature environment may cause beads coagulate inside the unit, don't use the unit in this situation, eject the disc and wipe off the bead on the disc. If the unit still doesn't work after a few hours, please contact with after-sales service center.
  5. To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergency situations.
  6. Clean up the laser pickup more often than the home used counterpart due to the worse environment to the unit in car.
  7. To provide a clear demonstration and an alternative for easy understanding of the operation of this unit, graphic illustration is used. However, this illustration is not necessary printed as the actual image you may find on the unit.
  8. During operation the unit, "Ⓞ" is displayed if the particular operation is not available or illegal.
  9. Operate the unit correctly according to the manual instruction to prevent unnecessary problem. The guarantee won't be valid if the problem is caused by inappropriate operation.
- **This unit is manufactured under license from Dolby Laboratories.**
  - **'Dolby', 'ProLogic', 'ProLogic II' and the double-D symbol are trademarks of Dolby Laboratories.**

# Main features

## **DVD Player**

- Compatible disc formats: DVD±R, DVD±RW, CD-R, CD-RW, CD, SVCD, VCD
- Compatible file formats: MP3, WMA, MPEG1, MPEG2, MPEG4 and JPEG
- Dual optional display ratios (4:3 and 16:9)
- Dolby Digital and Dolby ProLogic II decoder
- Break point memory function
- Multi-subtitle, Multi-language and Multi-angle playback, Children lock
- Forward / reverse fast playback ; Forward / reverse slow playback
- Pause playback, Repeat playback, Scan playback, Stop playback; GOTO search function, ZOOM function, PBC function, Playback information display
- Multi-channel and stereo audio output
- Electrical Shock Protection (ESP) for DVD Playback

## **MP3/WMA**

- ID3 tag display
- Pause playback, Stop playback, Reverse skip / Forward skip
- Searching for a particular file by number buttons
- Electronic Shock Protection(ESP) for MP3 and WMA Playback

## **AM/FM TUNER**

- 30 preset radio stations (18FM+12 AM)
- Tuning and presetting radio stations automatically or manually
- Radio stations scan playing
- Distance / Local radio stations tuning mode

## **TV TUNER**

- Full frequency range searching
- 98 TV channels in total

## **Auxiliary functions**

- Support 1GB SD card
- External navigation interface

## **Display Screen**

- 6.5 inches wide TFT touch screen
- Full automatic motorized TFT LCD
- 16-step TFT LCD tilting adjustment
- Auto protection for unknown moving path

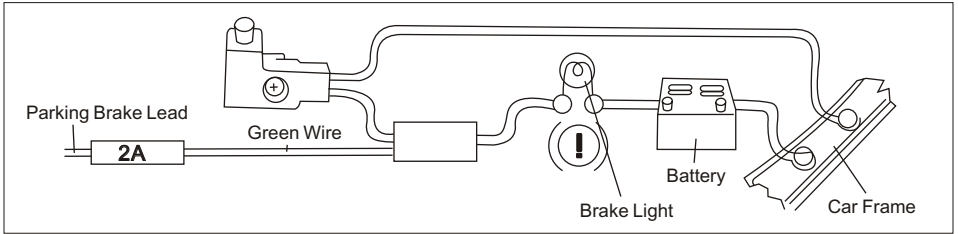
## **General Features**

- 2 DIN size
- Standard ISO interface
- Front & Rear area independent playback
- Rear view video camera signal input
- Auxiliary AV RCA input
- Rear AV RCA output
- Internal power amplifier outputs
- Multi-channel RCA audio line out
- EQ selection
- Dual video system: PAL & NTSC
- 5-way joystick menu navigation
- IR remote controller
- Mechanical anti-vibration system and ESP
- High & low voltage protection
- Clock display on the screen



# Device connection and Installation

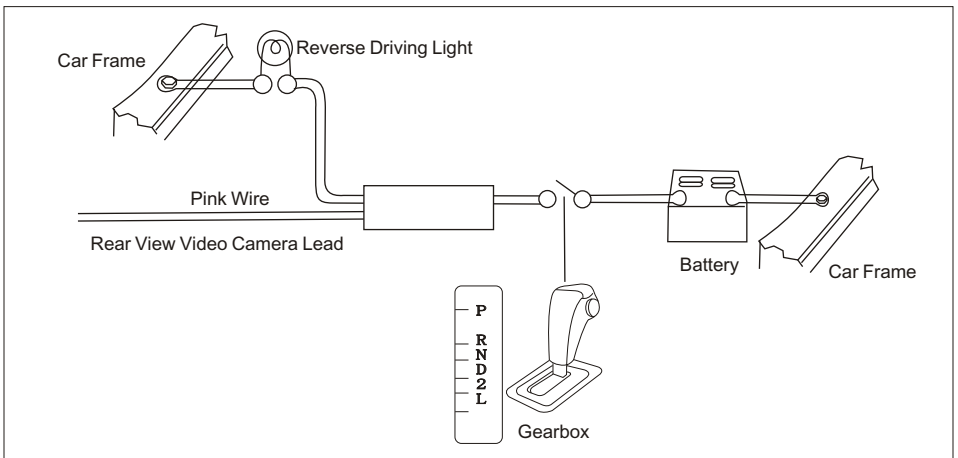
## 1. Parking Brake



**Note :** For Safety purpose, professional installation for the following connections is recommended.



## 2. Rear View Video Camera



## 3. Electrical Connections Overall Diagram

# Device connection and Installation

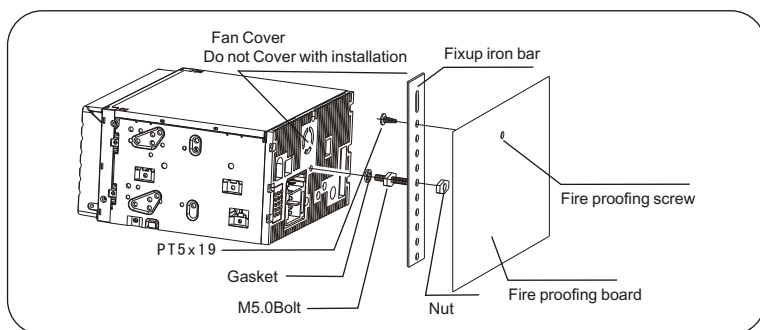
## Notes of installation

- 1) Before installation, please make sure proper connections are conducted and the unit operates normally. Please refer to <Electrical Connections overall diagram> and improper connection may result in damage to the unit.
- 2) Use only accessories designed and manufactured for this unit and other unauthorized accessories may result in damage to the unit.
- 3) Before installation, please fasten all power cables.
- 4) DO NOT install the unit in the place where close to hot area to prevent damage to electrical components such as the laser head.
- 5) Install the unit horizontally. Install the unit more than 30 degree vertically may result in worse performance.
- 6) To prevent electric spark, connect the positive pole first and then the negative pole.
- 7) DO NOT block the cooling fan exit to ensure sufficient heating dissipation of this unit, or it may result in damage to this unit.

## Installation procedure

Method 1:

If the meter panel of your car has a two-din dash, and the fireproofing board is capable of screw cap, you could choose this method:

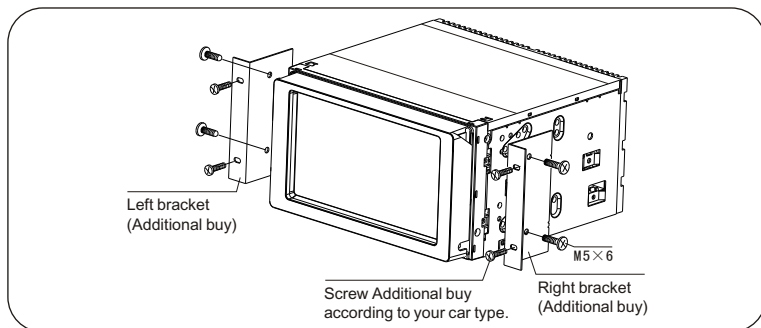


1. Screw a specialized M5 bolt to the screw at the empennage of this unit.
2. Screw down the fixup iron bar with the fireproofing board.
3. Put the unit into the dash and screw down the M5 bolt with the fireproofing board.

# Device connection and Installation

## Method 2:

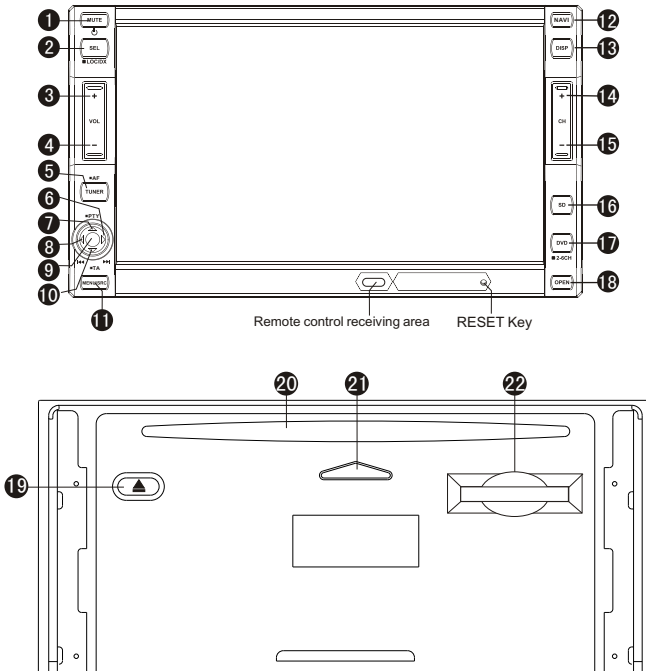
Different car matches to different bracket, please buy a suitable bracket to your car accordingly.



1. Choose a perfect position according to the depth of the dash; install two brackets (for Left and Right side respectively.) to the unit, using 4 pcs of M5X6 screw to screw down the bracket with the unit.
2. Put the unit into the dash and screw down the bracket to the meter panel with suitable screw.

# Before using

## Front panel



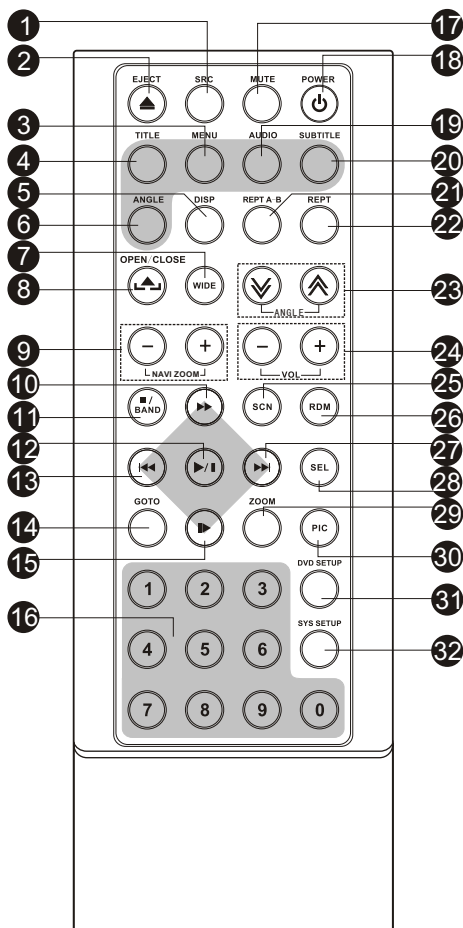
### Main functions of each key are listed as follows:

1. [MUTE] Key- Power / Mute
2. [SEL/LOC/DX] Key- Audio Control / Local / Distance Search
3. [VOL +] Key- Volume up
4. [VOL -] Key- Volume down
5. [TUNER] Key- Radio source/ Radio bands switch/AF function
6. [Next] Key- Next / Auto searching / Move cursor right
7. [Fast forward] Key- Fast reverse/Move cursor up/PTY function
8. [Previous] Key- Previous / Auto searching/Move cursor left
9. [AME/ENTER/SCAN] Key- Play/ Pause/ Scan playing/ Enter
10. [Slow forward] Key- Slow forward/ Slow reverse/Move cursor down/TA function
11. [MENU/SRC] Key- Enter the sources menu
12. [NAVI] Key- Enter navigation mode
13. [DISP] Key- Information display
14. [CH +] Key- Increase the monitor angle
15. [CH -] Key- Decrease the monitor angle
16. [SD] Key- SD card mode
17. [DVD/2-6CH] Key- DVD mode
18. [OPEN] Key- Open/Close the monitor
19. [Eject] Key- Eject the disc inside
20. Disc Slot
21. Disc Indicator
22. SD Card Slot

# Before using

## Remote Controller

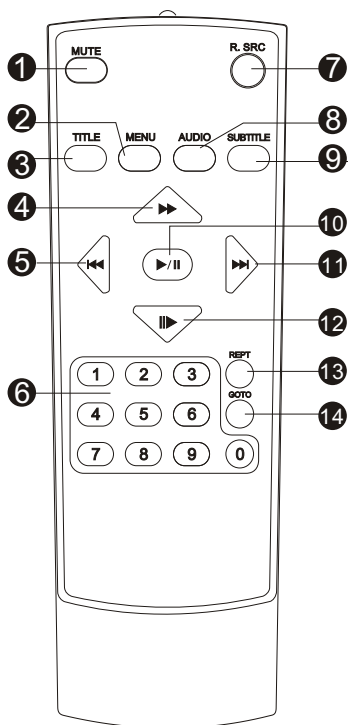
### ■ Remote Controller for Front Zone



1. [SRC] key- Front source select
2. [EJECT] key- Disc in /out
3. [MENU] key- DVD menu / VCD PBC
4. [TITLE] key- DVD title
5. [DISP] key- Display Information
6. [ANGLE] key- View angles switch
7. [WIDE] key- Display modes switch
8. [OPEN/CLOSE] key- Open/Close the monitor
9. [NAVI ZOOM+/-] key- Navigation map zoom in/out
10. [▶▶] key- Fast forward/ Fast reverse/ Move cursor up
11. [■/BAND] key- Stop playback / Radio bands switch
12. [▶/||] key- Play/ Pause/ Scan playing/ Enter
13. [◀◀] key- Previous/ Auto searching/ Move cursor left
14. [GOTO] key- GOTO search
15. [◀▶] key- Slow forward/ Slow reverse/ Move cursor down
16. [0~9] key- Numeric Keys
17. [MUTE] key- Audio mute
18. [POWER] key- Power on/ off
19. [AUDIO] key- DVD dialogue languages switch
20. [SUBTITLE] key- DVD subtitle languages switch
21. [REPT A-B] key- A-B segment repeat mode
22. [REPT] key- Repeat modes switch
23. [ANGLE/∨] key- Decrease the monitor angle  
[ANGLE/∧] key- Increase the monitor angle
24. [VOL/+ ] key- Volume up  
[VOL/-] key- Volume down
25. [SCN] key- Scan playback
26. [RDM] key- Random playback
27. [▶▶] key- Next / Auto searching/ Move cursor right
28. [SEL] key- Audio control
29. [ZOOM] key- Image zoom in
30. [PIC] key- Image setting
31. [DVD SETUP] key- Enter DVD setup
32. [SYS SETUP] key- Enter system setup

# Before using

## ■ Remote Controller for Rear Zone



- 1.[MUTE] key- Audio mute
- 2.[MENU] key- DVD menu / VCD PBC
- 3.[TITLE] key- DVD title
- 4.[▶▶] key- Fast forward/ Fast reverse/  
Move cursor up
- 5.[◀◀] key- Previous/ Auto searching/  
Move cursor left
- 6.[0~9] key- Numeric Keys
- 7.[R.SRC] key- Rear playing sources switch
- 8.[AUDIO] key- DVD dialogue  
languages switch
- 9.[SUBTITLE] key- DVD subtitle  
languages switch
- 10.[▶/||] key- Play/ Pause/ Scan playing/ Enter
- 11.[▶▶] key- Next / Auto searching/  
Move cursor right
- 12.[||▶] key- Slow forward/ Slow reverse/  
Move cursor down
- 13.[REPT] key- Repeat modes switch
- 14.[GOTO] key- GOTO search

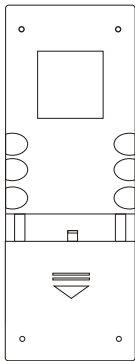
# Before using

## ■ Notes of remote control using

- Aim the remote controller directly at the remote sensor on the unit.
- Remove the battery from the remote control or insert a battery insulator if the battery has not been used for a month or longer.
- Do not store the remote control under direct sunlight or in high temperature environment, the controller may not function properly.
- The battery can work for 6 months under normal condition. If the remote controller can't work, please change the battery.
- Use “button shaped” lithium battery “CR2025” (3V) only.
- Do not recharge, disassemble, heat or expose the battery in fire.
- Insert the battery in proper direction according to the (+) and (-) poles.
- Store the battery in a place where children cannot reach to avoid risk of accident.

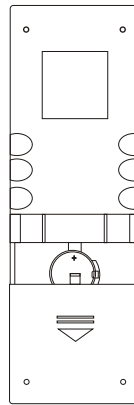
## ■ Uninstall Battery

Slide out the battery compartment tray at the bottom on the back of the remote control.



## ■ Install Battery

Use only “button shaped” lithium battery “CR2025 (3V)”, insert the battery to the battery tray in proper direction according to the (+) and (-) poles.



# Basic operations

## ***Reset the unit***

Operating the unit for the first time or after replacing the car battery or the unit working abnormally, you should reset the unit.

Press the [RESET] key on the front panel to restore the unit to the original factory settings.

## ***Power on / off***

### ■ Power on

Press the [⏻ / MUTE] key on the front panel or the [⏻ / POWER] key on the remote controller.

### ■ Power off

Press and hold the [⏻ / MUTE] key on the front panel or press the [⏻ / POWER] key on the remote controller briefly.

### Note:

After the unit is off, the volume level and radio current settings will be memorized, and when the unit is on, it will resume the stored status you have set.

## ***Volume Adjustment***

Press the [VOL/+] or [VOL/-] key on the remote controller or the front panel.

## ***Mute***

When the unit is on, press the [⏻ / MUTE] key on front panel or [MUTE] key on the remote controller to close audio outputs. Press it again or adjust volume to resume the volume.

## ***Playing sources switching***

Method 1:

Press the [SRC] key repeatedly on the remote controller to switch to the source you desired.

Method 2:

Enter the sources menu by pressing the [MENU] key on the front panel or touching the left top corner of the screen, and then touch the proper icon.



# Basic operations

## ***Open / Close the Monitor***

Press the [OPEN] key on the front panel or the [L▲] key on the remote controller.

## ***Adjust the monitor angle***

Press and hold the [CH+] / [CH-] key on front panel or press the [ANGLE ▼] / [ANGLE ▲] key on the remote controller.

## ***Display modes switching***

Press the [WIDE] key on the remote controller to switch the display modes between CINEMA, NORMAL and STANDBY.

## ***Image setting***

### **■Video format**

The video output format for each source is listed as below:

Source	Video format
TUNER	RGB mode
DVD	
NAVI	
SD	
AUX IN	CVBS mode
CAMERA	
TV	

### **■Adjustable Parameters**

In RGB mode, only BRIGHT is adjustable.

In CVBS mode, PICTURE, COLOR, CONTRAST, BRIGHT and TINT are adjustable.

# Basic operations

## ■Parameter adjustment procedure

- ① Enter image setting mode  
Press the [PIC] key on the remote controller.
- ② Select one setting item  
Press the [◀]/ [▶] key on the front panel or the [◀◀]/ [▶▶] key on the remote controller.
- ③ Adjust the value  
Press the [▼]/ [▲] key on the front panel or the [▶▶]/ [▶▶] key on the remote controller.
- ④ Exit image setting mode  
Repeat the operation of the first step or stop operating for some seconds.

## **Audio setting**

Audio control allows you to easily adjust the audio system to meet the in-car acoustic characteristics that vary depending on the type of car and its measurement.

## ■Parameter adjustment procedure

- ① Enter audio setting mode  
Press and hold the [SEL/LOC/DX] key on the front panel or press the [SEL] key on the remote controller.
- ② Select one setting item  
Press the [◀] / [▶] key on the front panel or the [◀◀] / [▶▶] key on the remote controller.
- ③ Adjust the value  
Press the [▼] / [▲] key on the front panel or the [▶▶] / [▶▶] key on the remote controller.
- ④ Exit audio setting mode  
Repeat the operation of the first step or stop operating for some seconds.

## Note:

- ① EQ modes: User → Flat → Jazz → Pop → Classic → Rock → Vocal → User.
- ② Different EQ reflects in different Bass level and Treble level, the Bass and Treble level could be adjusted only in User mode.
- ③ If turning off the ACC power, all settings will become as that they have set in the plant.

# Advance functions

## **TFT monitor auto open**

- ① If 'TFT Auto Open' is set to 'On', the monitor will go to its last position after the unit is power on.
- ② If 'TFT Auto Open' is 'Off', the monitor will be unfurled by pressing the [OPEN] key on the front panel or the [▲] key on the remote controller after the unit is power on.



### **Note:**

Please refer to the 'TFT Auto Open' option of the General Setup.

## **Auto brightness control**

To avoid the display being too bright at night time, if the cable for headlight is connected to ILLUMI (for more details, please refer to < Electrical Connections Overall Diagram >), turning on the headlight dim the backlight of TFT and vice versa.

## **Line mute**

If the MUTE is connected, other audio outputs are closed when a call is received by the car phone (for more details, please refer to < Electrical Connections Overall Diagram >).

## **When parking brake applied**

- ① If 'PRK SW' cable is connected to hand brake switch, the video display of the TFT monitor will be controlled by driving status, system setup and input video sources.
- ② When 'Parking' is set to 'Off' or the car is parking or the input video source is CAMERA, the video display of the TFT monitor will be normal.
- ③ When 'Parking' is set to 'On' and the car is moving ahead, the following warning screen will be displayed to prevent the driver watching images. The passengers at the rear seats can watch normally.

ATTENTION :  
DO NOT USE THIS FUNCTION  
WHILE DRIVING!

## **When Reverse Driving**

If the rear view video camera is connected, the unit automatically switches to **CAMERA** source during reverse driving. The unit returns to the original work mode after the reverse driving is done.

## **Mechanism overloaded protection**

During the TFT movement, once the monitor is overloaded by blocking or unclear moving path, the unit will automatically protect the mechanism.

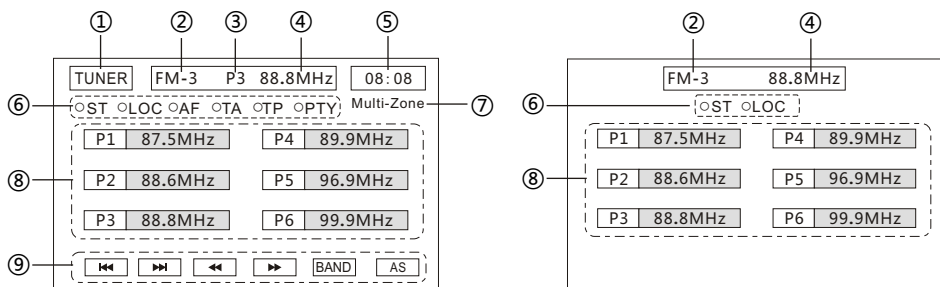
# Radio mode

## Mode selecting

Press the [TUNER] key on the front panel to switch to RADIO mode directly, or press the [SRC] key on the remote controller repeatedly to switch to RADIO mode, or touch the left top corner of the screen to open the sources menu and then touch the [RADIO] button.

## User Interface (UI) of Radio mode

When the unit switches to the RADIO mode, the following user interface will be displayed:



- ① Source name, touch to open main source menu
- ② Band name
- ③ Preset radio station NO.
- ④ Current radio frequency
- ⑤ Clock
- ⑥ Radio function indicators
- ⑦ Rear Zone, touch to enter rear zone source menu
- ⑧ Preset radio stations
- ⑨ Radio function keys



### Note:

When multi-zone is on and the source of the rear zone is DVD mode or SD mode, the radio UI will be shown as the right picture.

# Radio mode

## ***Radio band selection***

Press the [TUNER] key on the front panel or the [■/BAND] key on the remote controller, or touch the [BAND] key on the UI to switch the radio band among FM1, FM2, FM3, AM1, AM2.



### **Note:**

The frequency ranges of FM and AM are different according to the radio systems. As the unit provides different radio systems, you can choose proper one accordingly. For more detail, please refer to 'Radio' option of the General Setup.

## ***Automatic tuning***

Press and hold the [▶]/[◀] key on the front panel or the [◀◀]/[▶▶] key on the remote controller, or touch the [◀◀]/[▶▶] key on the UI, the automatic tuning will start. When one radio station with strong signal has been received, the unit will stop tuning and play the station. Press and hold the 1~6 preset buttons to store the station found.



### **Note:**

To stop automatic tuning, press it again or any radio-function key.

## ***Manual tuning***

Press the [◀]/[▶] key on the front panel or the [◀◀]/[▶▶] key on the remote controller repeatedly, or touch the [◀◀]/[▶▶] key repeatedly on the UI to tune in one station upward or downward step by step. Press and hold the 1~6 preset buttons to store the station found.

# Radio mode

## ***Auto memory store (AMS) function***

Auto search these radio stations with strongest radio signal in the whole radio band and auto store those stations to the 1~6 preset stations.

Press and hold the [ENTER] key on the front panel or the [▶/■] key on the remote controller, or touch the [AS] key on the UI to start AMS function.

Press the 1~6 numeric keys on the front panel or touch the 1~6 preset stations on the UI to recall the preset radio stations.



### **Note:**

- ① To stop AMS, press any radio-function key.
- ② Auto store one radio station to the preset station will overwrite the previous preset radio station.

## ***Scan preset stations***

Press the [ENTER] key on the front panel or the [▶/■] on the remote controller to scan all preset stations in the memory of the current band and play each station for 10 seconds.



### **Note:**

To stop scanning, press any radio-function key.

## ***Local radio station seeking (LOC)***

When LOCAL seeking is on, only the station with strong signal can be received and played.

Press and hold the [SEL/■LOC/DX] key on the front panel or touch the [LOC] key on the UI to turn the LOCAL function on.

To exit LOCAL mode, do the above operation again.

# RDS operations

## ***Brief introduction of RDS***

The unit provides basic functions of RDS, including PI (Program Identification), station name displaying, RT (Radio Text), CT (Clock Time), AF (Alternative Frequency), TA (Traffic Announcement) and PTY (Program Type) Selection.

### **Note:**

- ① RDS service is not available in AM broadcasting.
- ② RDS service depends on the FM broadcasting provider.

## ***Search the PTY***

PTY is the abbreviation for Program Type which is a code defining the type of program being broadcast (eg News or Rock).

### ① Activate PTY search mode

Press and hold the [▲] key on the front panel to activate PTY function.

### ② Select a PTY

Press the [▲]/ [▼] key on the front panel or the [▶▶]/ [◀◀] key on the remote controller repeatedly to select one PTY you desired.

### ③ Search for a PTY

#### ■ Auto search a PTY

When a PTY is select (eg NEWS), auto search for next available PTY by increasing tuning frequency until the PTY of the next station matches the current. If no matched PTY has been found, the tuner will return to the original radio station and 'NONE' is displayed.

#### ■ Search by category

Supposed the searching category for PTY were 'SPEECH' and 'MUSIC', the searching stops and starts to playback while either has been met.

#### ■ PTY light

During PTY search, 'PTY' indicator is lits up and blinked.

### **Note:**

After the searching, no matter whether a PTY has been found, the unit will exit the searching mode and PTY will be OFF if no operation in 5 seconds.

### ④ Store a PTY

When you want to store the current PTY, you should press and hold the numeric keys of 1~6 on the remote controller.

### ⑤ Searching the PTY quickly

When PTY is on, press the numeric keys of 1~6 on the remote controller to play one preset station, then choose other station as needed.

# RDS operations

## ⑥ Deactivate PTY function

To cancel this function, do the operation above again.

## **PTY alarm**

PTY alarm function activates automatically during emergency announcement broadcasting such as natural disaster announcement no matter what media source you are playing.

If the unit receives a radio alarm code, 'ALARM' will display and the unit switches to receive the emergency announcement.



### **Note:**

- ① The unit returns to the original source after the emergency announcement has been received.
- ② There is no button operation can stop the reception of emergency announcement.

## **TA function**

The TA (Traffic Announcement flag) function lets you receive traffic announcements automatically no matter what media source you are playing back. The TA function can be activated for a TP station broadcasting traffic information.

### ① Activate TA function

Press and hold the [▼] key on the front panel to activate TA function.

### ② Search traffic announcements under radio mode

Press the [◀]/[▶] key on the front panel or the [◀◀]/[▶▶] key on the remote controller.

### ③ Receive traffic announcements under other modes

When TA is activated and a traffic announcement is received, the current playing source will be overridden by the traffic announcement if the current radio band is FM and the 'TA' indicator lights up, indicating that the unit is waiting for traffic announcements.

The unit returns to the original source after the traffic announcement has been received.



### **Note:**

The unit will attempt to seek a TP station all the time when the current source is not radio if 'TA' has been activated. Under this condition, if you switch the playing source to radio, you will find the radio frequency may be different from the frequency before the tuner was switched off.

### ④ Cancel traffic announcements reception

Repeat the operation of step ①.



# RDS operations

## **AF (Alternative Frequency lists) function**

Lists of Alternative Frequencies are used for the same program service and used in conjunction with the PI code (Program Identification code) to assist automatic tuning. Using this information, a radio can automatically search out another station that is playing the same material. This is useful when the station you are listening to is fading out.

To activate this function, press and hold the [TUNER/■AF] key on the front panel.

## **Region**

When AF is activated and Region is set to 'On', auto tuning to those stations within the region assigned.

When AF is activated and Region is set to 'Off', auto tuning to those stations without any region boundary.

## **CT (Clock Time)**

Some stations broadcast the time and date within the encoded RDS signal.

The clock time is automatically adjusted when 'CT' is set to 'On'.

## **RT (Radio Text)**

When this function is activated, the unit will display short message data transmitted from the provider, such as station information, the name of the current broadcasting song and the artist name.

## **PI search**

When RDS signal is lost for a long time, the unit will search a frequency matching with the current station PI per 2 minutes automatically to switch to a station playing the same program.

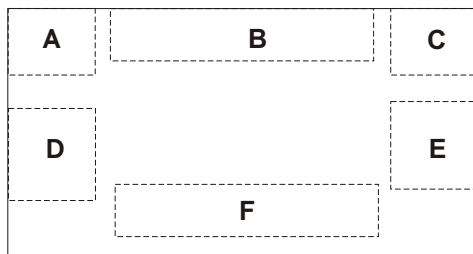
## **Setup of RDS**

Touch the left top corner of the screen or press the [MENU/SRC] key on the front panel to open the main MENU. Press the [SETUP] and then press [SYSTEM SETUP] on the UI or press the [SYS SETUP] on the remote controller to open the SYSTEM SETUP menu and then press [RDS SETUP] option.

Option	Selectable values	Function
RDS	On/Off	Switching RDS function on or off.
CT	On/Off	Switching Clock Time function on or off.
Region	On/Off	Switching Region function on or off.

# DVD mode

## Touch function under DVD mode



- A-Open front sources menu
- B-Display playback information
- C-Open rear sources menu
- D-Play previous file
- E-Play next file
- F-Recall the following keys:  
[▶/■] [■] [◀◀] [▶▶] [◀◀] [▶▶]

## Loading a disc

Turn the power on and insert the disc into the slot with the printed side facing upward. The unit will enter DVD mode automatically.

Press the [▲] key on the front panel or the remote controller to eject the disc and the unit will switch to radio mode automatically.

## Play/ Pause

It will take some seconds to load the disc. When the playback starts, press the [ENTER] key on the front panel or the [▶/■] key on the remote controller to stop the playback temporarily. To resume the playback, do the operation again.

## Stop playback

During playback, press the [■/BAND] key on the remote controller, the playback will stop and the current playback point will be memorized. To resume the playback, press the [ENTER] key on the front panel or the [▶/■] key on the remote controller. Press the [■/BAND] key again to stop playback fully. If you start playback now, the playback will start from the very beginning.

## Fast Forward (FF) / Fast Reverse (FR)

Press the [▲] key on the front panel or the [▶▶] key on the remote controller repeatedly to select the speed of FF or FR among X2, X4, X8 and X20. To resume normal playback, press the [ENTER] key on the front panel or the [▶/■] key on the remote controller.

## Slow Forward (SF) / Slow Reverse (SR)

Press the [▼] key on the front panel or the [◀◀] key on the remote controller repeatedly to select the speed of SF or SR among X1/2, X1/4, X1/6 and X1/7. To resume normal playback, press the [ENTER] key on the front panel or the [▶/■] key on the remote controller.

# DVD mode

## **Playback the previous / next file**

Press the [◀] / [▶] key on the front panel or the [◀] / [▶] key on the remote controller to play the previous / next file.

## **Repeat playback**

Press the [REPT] key on the remote controller repeatedly to select one repeat mode.  
For DVD: Repeat Title → Repeat Chapter → Repeat Off  
For VCD (PBC Off) / CD: Repeat Single → Repeat Off  
For MP3: Repeat Single → Repeat Folder → Repeat Off

## **Repeat A-B function (for DVD/VCD/CD)**

During playback, the playback between point A and B is repeated when this function is on.

Press the [REPT A-B] key on the remote controller to set the start point (A) and do the operation again to set the end point (B) of the section you want to repeat.  
Press the [REPT A-B] key for the third time to cancel the A-B repeat function and normal playback is resumed.

## **Random playback**

During playback, press the [RDM] key on the remote controller to start random playback.

To cancel this function, do the operation again.



### **Note:**

PBC will be closed automatically when random playback is on.

## **Intro playback**

You can play the first 10 seconds of each file .

Press the [SCN] key on the remote controller to start random playback.  
To cancel this function, do the operation again.

## **GOTO search function (for DVD/VCD)**

The unit can go to the track/ chapter or the time point you desired.

① Enter GOTO search mode

Press the [GOTO] key on the remote controller and the search menu will be displayed on the screen. For VCD, press the [GOTO] key repeatedly to select the Track Search or the Disc Search.

### **For DVD**

Search	
Time	--:--:--
Title/Chapter	--/---

### **For VCD**

TrackSearch	
Time	--:--:--
Title/Chapter	--/---

DiscSearch	
Time	--:--:--
Track	--/---

## DVD mode

### ② Select one type of search

Press the [▼] / [▲] key on the front panel or the [▶▶]/[⏏] key on the remote controller to select one search option among Time/ Title Chapter/ Track.

### ③ Execute the search

#### ■ For time search

Press the numeric keys to enter the time you want to start playback from (hh:mm:ss). For example, to enter time 01:28:53, press 0→1→2→8→5→3. Press the [ENTER] key on the front panel or the [▶/■] key on the remote controller to start playback.

#### ■ For Title/Chapter search

Press the numeric keys and the [▶] on the front panel or the [▶▶] key on the remote controller to enter the title and chapter number you desired. For example, to search the 8<sup>th</sup> chapter of the 20<sup>th</sup> title, press 2→0→▶/▶▶→8. Press the [ENTER] key on the front panel or the [▶/■] key on the remote controller to start playback.

#### ■ For Track search

Press the numeric keys to enter the track number. For example, to enter the 13<sup>th</sup> track, press 1→3. Press the [ENTER] key on the front panel or the [▶/■] key on the remote controller to start playback.

### ④ Exit GOTO search mode

To exit GOTO search mode, press the [GOTO] key repeatedly until the search menu disappeared.

## ***Direct track selection (for CD/VCD)***

During playback, press the numeric keys on the remote controller to go to the track desired. For example, if you want to play the 15<sup>th</sup> track, press 1 and then 5.

## ***Audio channel selection***

#### ■ For DVD

Press the [AUDIO] key repeatedly on the remote controller to change the dialogue language.

#### ■ For VCD/ CD

Press the [AUDIO] key repeatedly on the remote controller to select one audio channel output mode among Left Channel, Right Channel and Stereo.

## DVD mode

### **Alter between 2-ch and 6-ch**

Press and hold the [DVD/■2-6CH] key on the remote controller to change audio output mode between multi-channel and stereo.

### **Disc Menu (for DVD only)**

#### ■Disc menu

- ① Press the [Menu] key on the remote controller to enter the disc menu.
- ② Press the [▶▶]/ [⏮]/ [◀◀]/ [▶▶] key on the front panel or the [▲]/ [▼]/ [◀]/ [▶] key on the remote controller.
- ③ Press the [ENTER] key on the front panel or the [▶/⏮] key on the remote controller to start playback.

#### ■Title menu

- ① Press the [TITLE] key on the remote controller to enter the disc menu.
- ② Press the [▶▶]/ [⏮]/ [◀◀]/ [▶▶] key on the front panel or the [▲]/ [▼]/ [◀]/ [▶] key on the remote controller.
- ③ Press the [ENTER] key on the front panel or the [▶/⏮] key on the remote controller to start playback.

### **PBC (Playback Control) function (for VCD only)**

If you insert a VCD disc with PBC function, playback starts from the first track automatically.

- ① Press the [MENU] key on the remote controller to activate PBC menu.
- ② If the menu consist a list of tracks, you can select a desired one by pressing the numeric keys on the remote controller or the [▶▶]/ [⏮]/ [◀◀]/ [▶▶] key on the front panel or the [▲]/ [▼]/ [◀]/ [▶] key on the remote controller and then pressing the [ENTER] key on the front panel or the [▶/⏮] key on the remote controller to start playback.
- ③ Press the [■/BAND] key on the remote controller to return to the menu.
- ④ To deactivate PBC function, press the [MENU] key again.



#### **Note:**

- ① When PBC function is activated, fast playback, slow playback, and previous / next track are available. Repeat playback and direct track selection are invalid.
- ② When PBC function is activated, if random playback or intro playback is executed, PBC function is deactivated automatically.

# DVD mode

## Subtitle language selection (for DVD only)

Press the [SUBTITLE] key on the remote controller to change the subtitle language among the languages supported by the DVD disc.

## View angle selection

Press the [ANGLE] key repeatedly on the remote controller to play back images in different camera angles. If the disc does not support multi-angle playback, this function will not work.

## Zoom

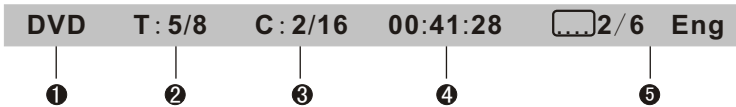
During playback, press the [ZOOM] key on the remote controller to zoom in images. Images will be enlarged accordingly: X1→ X2→ X3→ X4(DVD only)→off.

## Playback information

During playback, press the [DISP] key on the front panel or the remote controller, the playback information will be displayed on the screen.

### ■For DVD disc

#### Playback information



- ① Disc format
- ② This DVD has 8 titles and the title playing back now is the 5<sup>th</sup> title.
- ③ The current title has 16 chapters and the chapter playing back now is the second chapter.
- ④ Elapsed time
- ⑤ The subtitle of this DVD has been recorded in 6 languages and the language displayed now is the second, which is English.

#### Playback status



- ① Front source is DVD mode
- ② Rear source is AUX IN
- ③ Decode method
- ④ No Pro Logic is being used

# DVD mode

## ■ For VCD disc

Playback information

VCD2.0 T:6/18 00:08:18

①

②

③

- ① Disc format
- ② This VCD has 18 tracks and the track playing back now is the 6<sup>th</sup> title
- ③ Elapsed time

Playback status under 6-channel mode

Front: DVD Rear: AUX IN MPEG PL II Music

①

②

③

④

- ① Front source is DVD mode
- ② Rear source is AUX IN
- ③ Decode method
- ④ Surround mode is Pro Logic II Music

Playback status under 2-channel mode

Front: DVD Rear: AUX IN EQ: FLAT LOUD: Level 1

①

②

③

④

- ① Front source is DVD mode
- ② Rear source is AUX IN mode
- ③ The current EQ is FLAT
- ④ The current LOUD level is 1.

## DVD mode

### MP3 / WMA file playback

When playing back an MP3 or WMA disc, the unit plays back a file according to the sequence as follows: Root directory → Folder → File.

#### ■ Search a file

If the current playing file is 🎵(2)(Random and Repeat Single are closed).....

Operation	Result: 🎵(2)
⏮ Key	🎵(2) → 🎵(1)
⏭ Key	🎵(1) → 🎵(2)
Key [6]	🎵(2) → 🎵(6)

#### ■ Select one play mode

Press the [RDM] and [REPT] keys on the remote controller to select one play mode according to the following table.

Playing Modes	Results
Normal	Pausing after playing back all files in the disc
Repeat Single	Play back a file repeatedly
Folder Repeat	Play back all files in the current folder repeatedly
Random	Play back all files in the current folder randomly

#### ■ Select other folders or files to play back

- ① Press [⏭]/ [⏮] key on the remote controller to change the folder.
- ② Press [⏮]/ [⏭] key on the remote controller or numeric keys to select the file you want. You can play back a file by pressing numeric keys of the remote controller or touching the file directly also.



#### Note:

For more details about MP3, please refer to 'About Mp3 files'.

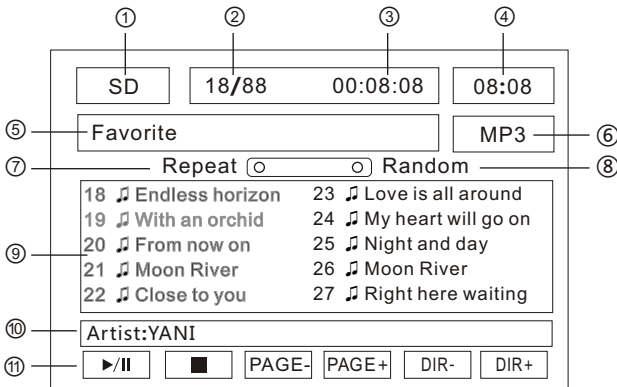


# SD card mode

## Mode selecting

Press the [SD] key on the front panel to switch to SD card mode directly, or press the [SRC] key on the remote controller repeatedly to switch to SD card mode, or touch the left top corner of the screen to open the sources menu and then touch the [SD] button.

## User Interface (UI) of SD card mode



- ① Source name, touch to open main source menu
- ② Current file / total files
- ③ Elapsed time
- ④ Clock
- ⑤ File folder name
- ⑥ File format
- ⑦ Repeat mode key. It's a touch key
- ⑧ Random mode key. It's a touch key
- ⑨ File list
- ⑩ ID3 tag information
- ⑪ Play control keys

## Play/ Pause

During playback, press the [ENTER] key on the front panel or the [▶/||] key on the remote controller to stop the playback temporarily. To resume the playback, do the operation again.

# SD card mode

## **Stop playback**

During playback, press the [■/BAND] key on the remote controller, the playback will stop and the current playback point will be memorized. To resume the playback, press the [ENTER] key on the front panel or the [▶/■] key on the remote controller. Press the [■/BAND] key again to stop playback fully. If you start playback now, the playback will start from the very beginning.

## **Playback the previous / next file**

Press the [◀] / [▶] key on the front panel or the [◀◀] / [▶▶] key on the remote controller to play the previous / next file.

## **Repeat Playback**

Press the [REPT] key repeatedly on the remote controller or touch the [Repeat] key on the UI repeatedly to change repeat mode among Repeat single, Folder repeat, Repeat Off.

## **Random Playback**

During playback, press the [RDM] key on the remote controller or touch the [Random] key on the UI to start random playback.  
To cancel this function, do the operation again.

## **Direct track selection (for CD/VCD)**

During playback, press the numeric keys on the remote controller to go to the file desired. For example, if you want to play the 15<sup>th</sup> file, press 1 and then 5. You can play back one file by pressing the file in the list directly.

## **Audio channel selection**

Press the [AUDIO] key repeatedly on the remote controller to select one audio channel output mode among Left Channel, Right Channel and Stereo.

## **Alter between 2-ch and 6-ch**

Press and hold the [DVD/■2-6ch] key on the remote controller to alter audio output between 2-channel and 6-channel.

## **Change page**

Press the [PAGE+]/ [PAGE-]key on the UI to switch to the previous/next page.

## **Change direction**

Press the [DIR+]/ [DIR-] key on the UI to change direction.

# System setup

In any mode, touch the left top corner of the screen or press the [MENU/SRC] key on the front panel to open the main MENU. Press the [SETUP] and then press [SYSTEM SETUP] on the UI or press the [SYS SETUP] on the remote controller to open the SYSTEM SETUP menu.

SYSTEM SETUP includes ASP CONFIG, GENERAL SETUP and SCREEN CAL.

## Parameter adjustment procedures

### ① Select one option

Press the [◀]/ [▶] key on the front panel or the [◀◀]/ [▶▶] key on the remote controller and then press the [ENTER] key on the front panel or the [▶/■] key on the remote controller to confirm or touch the desired option.

### ② Adjust the value

Press the [▼]/ [▲] key on the front panel or the [▶▶]/ [◀◀] key on the remote controller.

### ③ Save the change

Press the [ENTER] key on the front panel or the [▶/■] key on the remote controller to confirm.



**Note:**

All adjustments can be done by touch screen function also.

## ASP CONFIG

Option	Selectable values	Function
Bass Center Frequency	60Hz/ 80Hz/ 100Hz/ 130Hz/ 150Hz/ 200 Hz	According to audio source discs, select the Bass center frequency to get the best Bass effect.
Treble Center Frequency	10KHz/12.5KHz/ 15KHz/ 17KHz	According to audio source discs, select the Treble center frequency to get the best Treble effect.
SUB.W Filter	80Hz/120Hz/160Hz	Set a cut-off frequency of the subwoofer's L.P.F (low pass filter).
SUB.W Phase	0D/ 180D	Set an output phase of the subwoofer's L.P.F (low pass filter).
Bass Q-Factor	1.0/ 1.25/ 1.5/ 2.0	Change the sharpness of the Bass output. The larger the Q-Factor, the sharper the Bass.

# System setup

## GENERAL SETUP

Option	Selectable values	Function
Radio	USA/S-Amer1/Arabia/China/ S-Amer2/Europe/Korea	Select one radio system according to your country.
Clock Mode	12Hr/24Hr	Select one clock mode to display the clock.
Parking	On/ Off	On: Image is played only when the car has been parked. Off: Image is displayed all the time.
TV System	Auto/PAL/NTSC	Auto: The color system of the monitor is switched automatically according to the input video format. PAL: The color system of the monitor is set to PAL system. NTSC: The color system of the monitor is set to NTSC system.
TFT Auto Open	On/Off	Set the monitor working mode when the unit is on and off. On: when the unit is off the monitor draws back into the unit and when it's on the monitor unfurls automatically. Off: when the unit is off the monitor draws back into the unit automatically, but it will not unfurl when the unit is on.
OSD	English	Select the menu language.
Clock		Set the clock.

### Note:

Method 1: Touch the 'Hour' or 'Min' and then touch the [+]/ [-] key on the UI to adjust the clock.

Method 2: Press the [▼]/ [▲] key on the front panel or [▶▶]/ [◀◀] key on the remote controller to move the cursor to 'Hour' or 'Min', and then press the [◀]/ [▶] key on the front panel or the [◀◀]/ [▶▶] key on the remote controller to adjust the value.

## SCREEN CAL

Use the SCREEN CAL function when the touch screen is not sensitive or valid. Calibrate the touch screen following the clew displayed on the screen after entering the SCREEN CAL mode.

# DVD setup

You can enter DVD SETUP under DVD mode, SD mode.

Touch the left top corner of the screen or press the [MENU/SRC] key on the front panel to open the main menu, press the [SETUP] and then press [DVD SETUP] on the UI or press the [DVD SETUP] key on the remote controller to open the DVD SETUP menu.

DVD SETUP includes LANGUAGE, VIDEO, AUDIO, SPEAKER, ProLogicII and RATING.

## LANGUAGE

Option	Selectable values	Function
Subtitle	English/Auto/off	Set subtitle language during DVD playback.
Audio	English	Set dialogue language during DVD playback.
DVD Menu	English	Set MENU/TITLE display language during DVD playback.

## VIDEO

Option	Selectable values	Function
TV Shape	4:3/ 16:9	Set the aspect ratio of the image displayed.
Angle Mark	On/ Off	Set whether the angle mark is shown on the monitor.
View Mode	Fill/ Original/ H fit/ W fit/ Fit to scrn/ Pan & scan	Set the image display mode.

## AUDIO

Option	Selectable values	Function
Pink Noise	Off/ Left/Center/ Right/ Left Surr/ Rear Surr/ Subwoofer	Use the built-in pink noise to adjust each channel output volume, or verify if audio output quality is normal.
DRC	On/ Off	Set the dynamic range of Dolby digital DVDs.
CNTR CTRL	0~6ms	Set the time delay between the center Speaker and the front Speakers. Proper delay will produce a more excellent audio effect for listening to.
REAR CTRL	0~6ms	Set the time delay between the center Speaker and the rear Speakers. Proper delay will produce a better surround effect for listening to.
Down Sampling	On/ Off	No matter what the sampling frequency is, if the above selection is on, all the signal output is 48kHz.

# DVD setup

## Surround setup

The UI of Surround setup is shown as following:



Option	Selectable values	Function
FL/FR	Large	Setup for the speakers with excellent bass response.
	Small	Setup for the speakers with deficient bass response.
RL/RR	Large	Setup for the speakers with excellent bass response.
	Small	Setup for the speakers with deficient bass response.
	None	Outputs of the rear speakers are closed.
SUB	Large	Output of the subwoofer is open.
	None	Output of the subwoofer is closed.
CTR	Large	Setup for the speakers with excellent bass response.
	Small	Setup for the speakers with deficient bass response.
	None	Outputs of the center speakers are closed.

# DVD setup

## PRO LOGIC II

Option	Selectable values	Function
Surround Mode	Off	No sound effect is applied
	Surround I	Dolby Pro Logic decoder
	Surround Matrix	Get surround effect from mono-sound
	Surround Movie	Enhanced movie surround effect
	Surround Music	Surround music effect
Panorama	On/Off	Extend the sound from the front to the rear getting a better audio surround effect. Panorama is available only when 'surround mode' is set to 'Surround music'.
Dimension Ctrl	0~6	Adjust the balance between the front and rear audio output to get better balanced sound field. 'Dimension Ctrl' is available only when 'surround mode' is set to 'Surround music'.
Center Width Ctrl	0~6	Adjusting the center width, the driver and the passenger of the front seat can enjoy such sound effect as the stage.

## RATING

Some DVD discs have built-in parental lock which prevents the unauthorized persons to watch restricted contents and prevents the children to watch some scenes as force or eroticism especially.

### ■ Change password

Press the [▶▶]/ [⏮] key on the remote controller or the [▼]/ [▲] key on the front panel, moving the cursor to 'Password' option. And then press the numeric keys to input the old password and confirm. After doing these operations, the parental lock is opened and then you can input your new password (4 digits). The new password is set successfully after confirming by pressing the [ENTER] key on the front panel or the [▶/⏮] on the remote controller and the parental lock is closed.

### Note:

The original password of parental lock is null. Please set your password when you use this function for the first time.

# DVD setup

## ■ Change watch level

- ① Input password to open the parental lock.
- ② Change watch level  
Select an appropriate watch level from the levels list.
- ③ Input password to close the parental lock  
Input a **new** password and confirm to close the parental lock.



### Note:

- ① The parental lock is opened after you enter the correct password and the password you entered is cleared by the unit automatically. To make the change become effective, you must enter a password again.
- ② The rating of the disc is marked on disc, disc packing or documentation. The parental lock is invalid if the rating of parental lock is not available in the disc.
- ③ Even through some discs have parental lock, but the restricted contents are skipped partially instead of entirely. For more details, please refer to the disc description.

## ***Load Factory***

Press the [▶▶]/ [⏪▶] key on the remote controller or the [▼]/ [▲] key on the front panel, moving the cursor to 'Load Factory' option and confirm by pressing the [ENTER] key on the front panel or the [▶/▶] on the remote controller. All DVD settings are initialized to the original settings.



### Note:

- ① After reset the DVD settings, the parental lock password and the watch level will not changed.
- ② 'Load Factory' is different from pressing the [RESET] key on the front panel. 'Load Factory' just reset the DVD settings but other settings are not changed. You should press the [RESET] key on the front panel when the unit can not work normally.



# TV mode

## ***Mode selecting***

Press the [SRC] key on the remote controller repeatedly to switch to TV mode, or touch the left top corner of the screen to open the sources menu and then touch the [TV] button.

## ***Automatic tuning***

Press and hold the [◀◀]/ [▶▶] key on the remote controller or the [◀]/ [▶] key on the front panel, the automatic tuning will start. When a TV channel has been received, the unit will stop tuning and play the channel.

## ***Manual tuning***

Press the [◀◀]/ [▶▶] key on the remote controller or the [◀]/ [▶] key on the front panel repeatedly to tune in one station upward or downward step by step.

## ***Auto memory store (AMS) function***

Auto search available TV channels in the whole frequency band and auto store those channels.

Press and hold the [ENTER] key on the front panel or the [▶/■] on the remote controller to start AMS function.

## ***Scan preset channels***

Press the [ENTER] key on the front panel or the [▶/■] on the remote controller to scan all preset channels and play each channel for 10 seconds.

To stop scanning, do the operation again.

## ***Change TV channel***

Press the [▶▶]/ [◀◀] key on the remote controller or the [▼]/ [▲] key or the [CH+]/[CH-] key on the front panel to select the previous/next stored TV channel.

## ***Display TV channel number***

Press the [DISP] key on the front panel or the remote controller to display current TV channel number.

## Other modes

### **AUX IN mode**

External AV devices can be connected with the unit through AUX IN function. For more details, please refer to <Electrical Connections Overall Diagram>. Press the [SRC] key on the remote controller repeatedly to switch to AUX IN mode, or touch the left top corner of the screen to open the sources menu and then touch the [AUX IN] button.

### **Rearview camera mode**

The rearview camera can be connected to the unit. For more details, please refer to <Electrical Connections Overall Diagram>. Press the [SRC] key on the remote controller repeatedly to switch to CAMERA mode, or touch the left top corner of the screen to open the sources menu and then touch the [CAMERA] button.



#### **Note:**

The front source will change to CAMERA mode automatically when you reverse the car.

### **Navigation mode**

The appointed navigation devices can be connected to the unit. For more details, please refer to <Electrical Connections Overall Diagram>. Press the [NAVI] key on the front panel or the [SRC] key on the remote controller repeatedly to switch to NAVI mode, or touch the left top corner of the screen to open the sources menu and then touch the [NAVI] button.

### **Rear Zone**

If a monitor is installed in the rear seat and connected with the rear zone AV output of the unit, passengers at the backseats are able to enjoy a live entertainment and do multifarious playing control operations using the remote controller for rear zone.

Press the [R.SRC] key on the REAR remote controller repeatedly to select one playing mode, or touch the left top corner of the screen to open the sources menu and then touch the [Multi-zone] button to enter sources menu for the rear zone and select one desired mode.



#### **Note:**

If you select STANDBY, the rear zone will be closed.

# Troubleshooting

What appears to be trouble is not always serious. Please check the following points before calling a service center.

## ■ Familiar characters and their meanings

Characters	Causes	Remedies
No Disc	Disc is too dirty.	Clean the disc or change the disc.
	Disc is inserted upside down.	Insert the disc correctly.
	No disc in the unit.	Insert a disc.
Bad Disc	Disc is extreme dirty.	Clean the disc or change the disc.
	Disc is inserted upside down.	Insert the disc correctly.
Unkown Disc	The disc is not compatible with the unit.	Change the disc.
Region Error	The disc's region code is not the same as the unit's.	Change the disc.

# Troubleshooting

## ■ General problems

Symptoms	Causes	Remedies
The unit cannot be powered on.	The fuse of the unit has been broken.	Install a new fuse with correct rating.
	The fuse of car battery has been broken.	Install a new fuse with correct rating.
	False operations and etc.	Reset the unit.
Remote controller does not work.	Battery has been exhausted.	Change the battery.
	Battery is not installed correctly.	Install the battery correctly.
No sound comes out or it's hard to hear.	Audio output connection is not correct.	Correct the connection according to "Electrical Connections Overall Diagram"
	The volume level is set to the minimum level.	Adjust the volume to the optimum level.
	MUTE connection is not correct.	Correct the connection according to "Electrical Connections Overall Diagram"
	The speakers have been damaged.	Check the speakers.
	The audio channel outputs are not balanced.	Adjust the balance of audio channel outputs. Please refer to "Audio control".
	The speaker cord is contacted with the bodywork.	Use insulating cord for connection.
Poor sound quality or sound distortion.	Piratic disc is used.	Use original copy disc.
	The speakers power rating does not fit into the unit output power.	Change the speakers.
	The speakers are connected incorrectly.	Correct the connections according to "Electrical Connections Overall Diagram"
	The speaker cord is contacted with the bodywork.	Use insulating cord for connection.
Tel-MUTE malfunction	MUTE is grounded.	Check the connection.
User preset information is lost when ACC is off.	ACC and BATT are connected incorrectly.	Correct the connections according to "Electrical Connections Overall Diagram"

# Troubleshooting

## ■ TFT Monitor

Symptoms	Causes	Remedies
Monitor cannot open automatically	"TFT Auto Open" is set to "off".	Set "TFT Auto Open" to "on".
No image appears on the monitor and warning information is shown at all times.	"PRK SW" is connected incorrectly.	Correct the connection according to "Electrical Connections Overall Diagram".
Abnormal display like as pulsatile stripes on the image and so on.	The color system of DVD disc is not suited with the monitor.	Adjust the color system of the DVD disc or the monitor.
	The actual color system is not the same as the marked color system on the label for some piratic discs.	Use original copy disc.
	The video cord is broken.	Change the video cord.
	The video cord is not connected correctly.	Connect the video cord correctly.
Characters are abnormal.	False operations.	Turn off the power and then turn on the power again, or change to other playing source and then go back.

## ■ Radio Tuner

Symptoms	Causes	Remedies
It's hard to receive stations.	Auto antenna is not extended completely.	Correct the connections according to "Electrical Connections Overall Diagram".
	Auto antenna is not connected with the unit firmly.	Correct the connections according to "Electrical Connections Overall Diagram".
	LOCAL function is on.	Close the LOCAL function.

# Troubleshooting

## ■ DVD player

Symptoms	Causes	Remedies
Disc cannot be inserted.	There is a disc in the unit already.	Eject the disc and then insert another one.
Disc cannot be played back.	Disc is scratched.	Change the disc.
	Disc is too dirty or wet.	Clean the disc.
	The pickup is dirty.	Clean the pickup with cleaning disc.
	Disc is not compatible with the unit.	Change the disc.
	Parental lock class is too high.	Change the parental lock class.
	Disc is inserted upside down.	Insert the disc correctly.
The disc's region code is not the same as the unit's.	Change the disc.	
Subtitle cannot be shown.	There is no subtitle file in the disc.	Change another disc containing subtitle files.
Audio language / subtitle cannot be changed.	There is only one audio language / subtitle in the disc.	Change another disc containing multi-language audio or subtitle.
View angle cannot be changed.	There is just one view angle in the disc.	Change another disc containing multi-angle.
	Multi-angle view is not available for the segment playing back now.	Select another segment to play back.
Image distortion.	The disc is protected by the copyright.	The unit is compatible with copy system; hence some discs contained the information of copying prohibited cannot be played back.
PBC is invalid when playing back VCD.	The disc does not support PBC.	Change another disc with PBC function.
Repeat playback or GOTO search is invalid when playing back VCD.	PBC is on.	Close PBC function.





## ■ MP3 playback

Symptoms	Causes	Remedies
Disc cannot be played back.	Disc is scratched.	Change the disc.
	Disc is too dirty or wet.	Clean the disc.
	The pickup is dirty.	Clean the pickup with cleaning disc.
	Disc is inserted upside down.	Insert the disc correctly.
Interruption occurred during playback.	Disc is scratched.	Change the disc.
	Disc is too dirty or wet.	Clean the disc.
	Some contents are damaged.	Change the disc.
	Disc is not recorded correctly.	Record the disc again.
MP3's name cannot be displayed correctly.	The name of MP3 is not regular.	Use the regular characters.




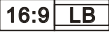

# Basic knowledge

## Basic knowledge of disc

### ■ Disc icons

Disc icons	Disc Physical Properties	Maximum Playback Time
 	12cm Single Side Single Layer (DVD-5) Single Side Double Layer(DVD-9) 12cm Double Side Single Layer(DVD-10) Double Side Double Layer(DVD-18)	( MPEG 2 Method ) 133 minute 242 minute 266 minute 484 minute
	VCD Disc 12cm Single Side Single Layer(VCD)	( MPEG 1 method ) 74 minute
	CD Disc 12cm Single Side Single Layer	74 minute

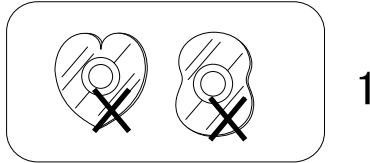
### ■ Disc symbols Disc Symbols

Disc Symbols	Meanings
	The numbers of audio languages recorded in the disc. This disc has 8 audio languages.
	The numbers of subtitle languages recorded in the disc. This disc has 32 subtitle languages.
	The numbers of view angles recorded in the disc. This disc has 9 view angles.
	Aspect ratios can be selected. "LB" stands for Letter Box and "PS" stands for Pan / Scan.
	Region code of DVD disc.

# Basic knowledge

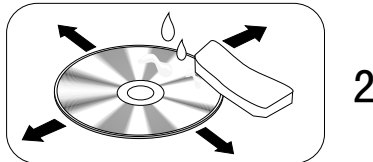
## ■ Caution of disc using

### 1) DO NOT use irregular shaped disc



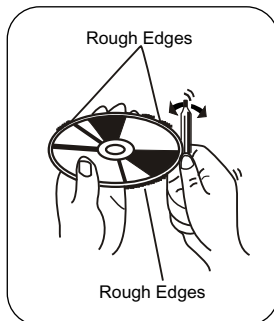
### 2) Disc Cleaning

Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used.



### 3) When playing a new disc

New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.





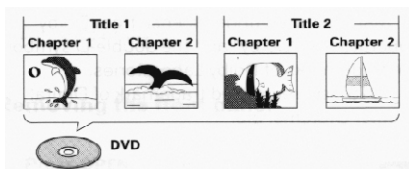
# Basic knowledge

## Basic knowledge of DVD/VCD/CD/MP3

### ■ AV contents structure of DVD

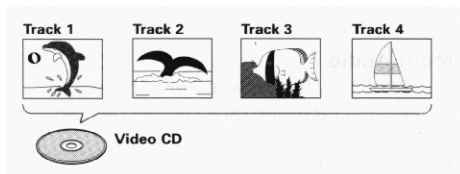
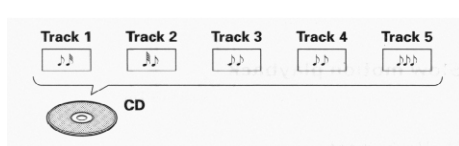
DVD has different titles and the title subdivides into different chapters.

For AV program, a single work (such as the filming information, the movie theme) is a single title. For Karaoke disc, a single song is a single chapter. But some of the discs are not recognized as this method, you should notice the difference when using search function.



### ■ AV contents structure of VCD

For VCD, CD, MP3 discs, the discs are divided into tracks and each track carries a song. Index numbers may be used for each track to distinguish each other in some certain discs.



### ■ Glossaries of DVD / VCD / CD

#### 1) Dolby AC-3 (Dolby Digital)

A true surround audio system that offers up to 6 discrete channels: 2 front (left & right), 2 rear (surround left & surround right), 1 center, and 1 subwoofer. These Channels are often specified as 5.1 channels because subwoofer only counts as "0.1" channel. The channels are compressed using lossy audio compression algorithm and then packed into a bitstream.

## 2) Line PCM (LPCM)

Line PCM (Pulse Code Modulation) is an uncompressed audio format which is similar with CD audio, but with higher sampling frequency and quantization. LPCM offers up to 8 channels of 48 kHz or 96kHz sampling frequency and 16, 20 or 24 bits per sample but not all at the same time. LPCM provides better audio quality comparing to CD audio using 44.1 kHz and 16 bits. LPCM offers high quality (similar with DVD-Audio) but its high data rate leaves little bandwidth for video on a DVD video disc. The audio signal is converted to digital data and recorded in two channels without compression. Due to the larger capacity of DVD, more data with better accuracy could be stored implies better quality audio DVD may have over CD's.

## 3) HDCD

High Definition Compatible Digital (HDCD) is a patented encode / decode process for delivering the full richness and detail of the original microphone feed on Compact Discs and DVD - Audio. HDCD-encoded CDs sound better because they are encoded with 20 bits of real musical information while other CDs are encoded with 16 bits. HDCD overcomes the limitation of the 16-bit CD format by using a sophisticated system to encode the additional 4 bits onto the CD while remaining completely compatible with the existing CD format. HDCD provides more dynamic range, a more focused 3-D soundstage, and extremely natural vocal and musical timbre. With HDCD, you get the body, depth, and emotion of the original performance not a flat, digital imitation.

# Basic knowledge

## 4) Pro Logic II

Pro Logic II is dramatically improved matrixes surround system based on the original Dolby Pro Logic system, In the case of Pro Logic, there are four channels, that is, front left, center, and front right, plus a mono surround channel that is usually split between two rear Speakers. Compared to Pro Logic, Pro Logic II offers two full-range stereo surround channels, more sophisticated steering logic, high channel separation and an exceptionally stable sound field. DPL II uses a simple servo circuits used to derive the five channels. And, unlike the synthetic, Jazz club, Hall and Stadium modes found on many A/V receivers, DPL II introduces no phony delay-induced echoes, reverb, or tonal coloration.

## 5) Multi Angle Playback

DVD may contain scenes which have been shot simultaneously from different angles; a scene then could be selected for viewing from different angles during its playback.

## 6) Region Code

Region 1: USA, Canada, East Pacific Ocean Islands;

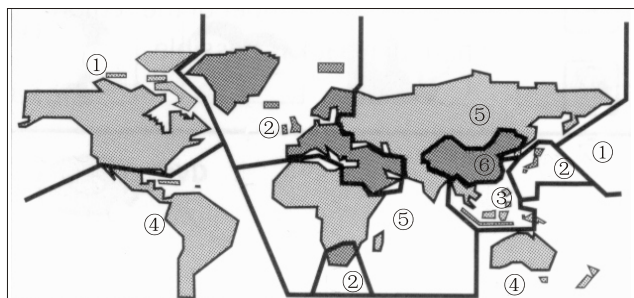
Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;

Region 3: Taiwan of China, Hong Kong of China, South Korea, Thailand, Indonesia, South East Asia;

Region 4: Australia, New Zealand, Mid & south America, South Pacific Ocean Islands/Oceania;

Region 5: Russia, Mongolia, India, Middle Asia, East Europe, North Korea, North Africa, North West Asia;

Region 6: Chinese Mainland.

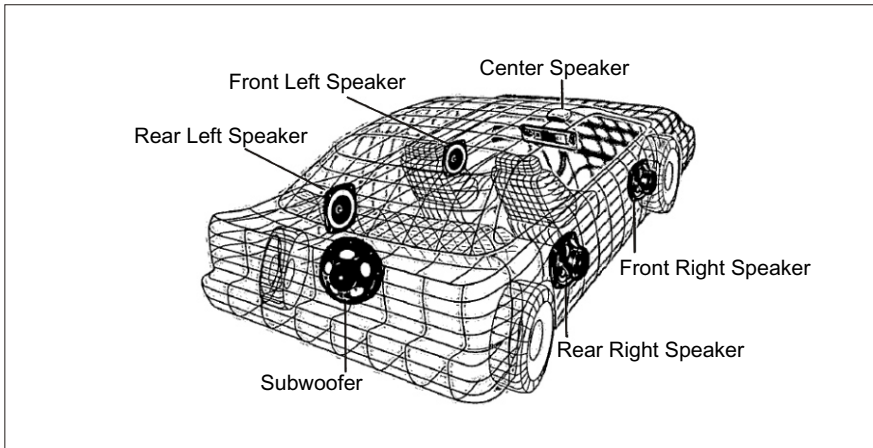


# Basic knowledge

## ■ Dolby Digital 5.1 Surround Sound

Dolby Digital 5.1 is a surround audio system which keeps the multiple channels fully separated throughout the AV encoding and decoding processes. In addition to Left, Centre, Right, Left Surround, and Right Surround channels, Dolby Digital 5.1 carry a “0.1 channel” which boosts the audio output with very low frequency for theater sound effect.

To optimize the output effect of Dolby Digital 5.1 surround sound, the following Speakers location is recommended.



## ■ About MP3 files

There are some notices you should pay attention to when you want to record or play back one MP3 disc.

### 1) Media Compatibility

The unit can play back MP3 files with the file extension code <.mp3> or <.wma> (regardless of the letter case upper / lower) recorded in CD-R / CD-RW, DVD±R / DVD±RW. For CD - RW discs please format them fully not quickly to prevent illegal disc operation.

### 2) MP3 Format Compatibility

- ① All the file naming formats listed below are compatible, file and folder naming format is listed below in the bracket
  - ◆ ISO 9660 Level 1 (file name : up to 12 characters; file extension : 3 characters)
  - ◆ ISO 9660 Level 2 (file name : up to 31 characters; file extension : 3 characters)
  - ◆ Joliet (up to 64 characters)
- ② If file name or folder name does not conform to ISO 9660 file system, it may not be displayed correctly nor be normally played back.

### 3) Settings for MP3 Encoder and CD / DVD recorder

- ① Do the following settings when compressing audio data in Mp3
  - ◆ Transferring Bit Rate : 8-320kbps;
  - ◆ Sampling Frequency: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz
- ② When recording MP3 up to maximum disc capacity using CD writer, disable additional writing. For recording on an empty disc up to maximum disc capacity, use "Disc at once" setting.

# Basic knowledge

## 4) Read MP3 files from media

- ① Too many folders or files other than MP3 recorded on a disc consume more time to start the playback of MP3 file. Files or folders searching may not be accessible.
- ② Besides, it may take much time to search for the next MP3 file and sometimes file or folder searching may be inaccessible.

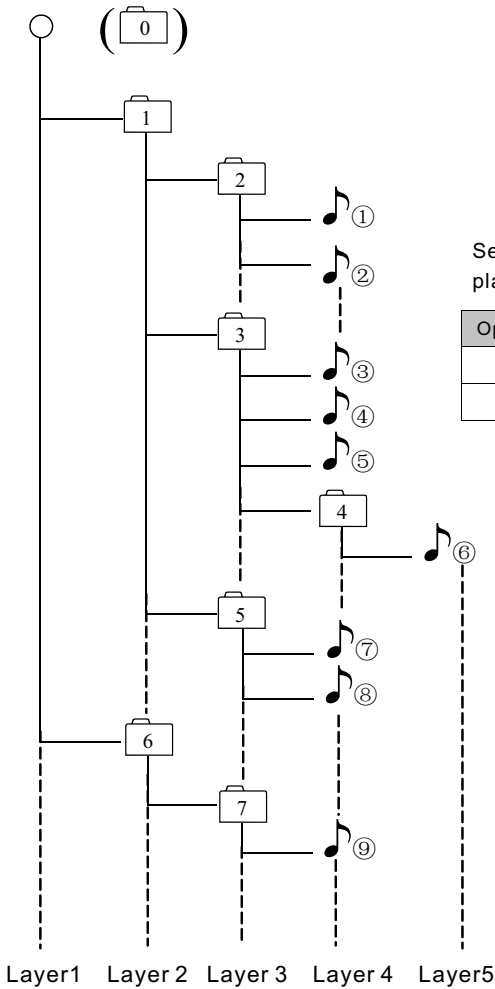
## 5) Note on playing back an MP3 disc

- ① Never try to rename a non-MP3 file into a file with MP3 extension code. Otherwise, the unit plays back the non-MP3 abnormally.
- ② Never play back non-MP3 files.

## 6) Other notes

- ① During playback or file searching, playback accords to the disc recording sequence. Sometimes, the actual playback sequence is not like as the desired.
- ② Playing list function is not supported. Record files and folders in the order you desired.
- ③ File & folder hierarchy and file searching.  
For example, a medium with the following folder / file hierarchy is subject to File searching shown as follows:

# Basic knowledge



- Root Folder
- Folder
- ♪ File

Searching for another MP3 file when playing ♪④.....

Operations	Results
⏮ Key	The beginning of a file ♪④→♪③
⏭ Key	♪④→♪⑤

# Specifications

## General

Operation voltage.....	12V(DC)
Operation voltage range.....	10.8V~16.0V(DC)
Max. Operation current.....	10A
Grounding system.....	Car battery negative pole
Installation dimension(W×H×D).....	178×100×(162+18)mm
Installation angle	
Vertically.....	0°~+30°
Horizontally.....	±15°

## FM

Signal noise ratio.....	55dB
Limit noise sensitivity(S/N=30dB).....	20dB
Frequency response(±3dB).....	50Hz~12KHz
Station seeking level.....	20~30dBuV
Distortion.....	1.0%
Stereo separation(1KHz).....	25dB
Antenna impedance.....	75Ω

## AM

Limit noise sensitivity(S/N=20dB).....	20dB
Amplitude(±9KHz).....	18dB

## DVD player

S/N ratio.....	80dB
Dynamic range.....	80dB
Frequency range(±3dB).....	20Hz~20KHz
Max. output power.....	5×45W
Load impedance.....	4Ω

## AUX IN

Distortion.....	0.5%
Frequency range(±3dB).....	20Hz~20KHz
Audio input level.....	40mVrms

## Audio

Audio output impedance.....	600Ω
Audio output level.....	≥2.2Vrms*

\* Under normal audio input level at maximum output volume.



# Specifications

## Video

Normal video input level(CVBS).....	1.0±0.2V
Normal video input level(RGB).....	0.7V
Video input impedance.....	75Ω
Video output impedance.....	75Ω
Video output level.....	1.0±0.2V*

*\*Under normal video input level*

## TFT monitor

Screen size.....	6.5 inches
Usable display area(H×V).....	143.4×79.32
Resolution(H×V).....	1200×234
Brightness.....	400cd/m <sup>2</sup> *
<i>*The brightness of center area measured after powering on for 30 minutes</i>	
Contrast.....	60(minimum)
Response time(rise).....	15ms
Response time(fall).....	25ms
Viewing angle	
Top.....	40°
Bottom.....	55°
Horizontally.....	±60°
LCD life cycle.....	20000h(at 25°C)

## Environment

Operation temperature.....	-20°C~+70°C
Storing temperature.....	-30°C~+80°C
Operating humidity.....	45%~80%RH
Storing humidity.....	30%~90%RH

※ This product is subject to be updated without notice.