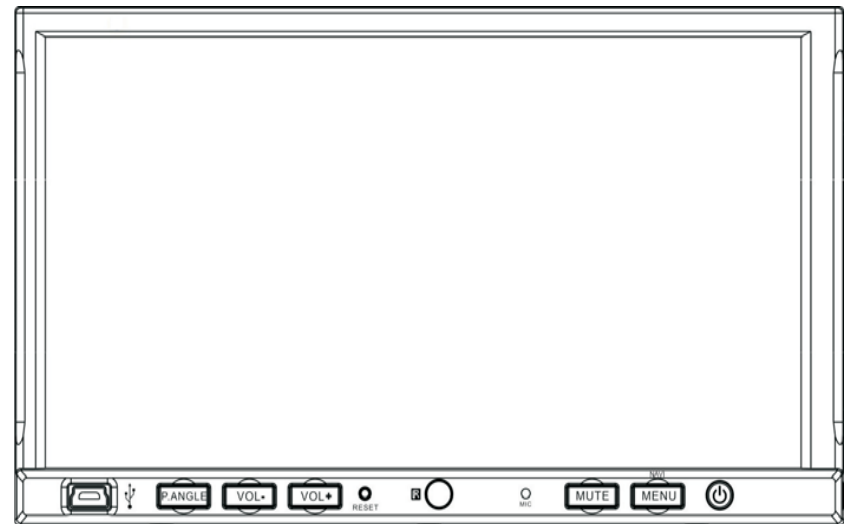


# OWNER'S MANUAL

## Mobile Video System



## DISC NOTES

### Handling and Cleaning

- Dirty, dusty, scratched or warped discs will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damage.
- Do not place discs in the following places:
  1. Direct sunlight.
  2. Dirty, dusty and damp areas.
  3. High temperature places.
  4. On the seats or dashboard.

### Disc Cleaning

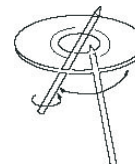
Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moist with isopropyl (rubbing) alcohol. Never use solvent such as benzene, thinner or conventional record cleaners which may mar the surface of the disc.

### NOTE:

*A disc may become somewhat scratched (although not enough to make it unusable) depending on your handling it in the condition of the usage environment. These scratches are not an indication of any problem with the player.*

### Repairing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ballpoint pen or pencil. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



Label side up



Do not touch the underside of the disc



Do not bend



Wipe the disc from the centre toward edge

Problem	Cause	Action
<b>TFT MONITOR</b>		
No video display (when in reverse)	Reverse circuit not connected	Check connections at reverse lamp
	Vehicle is not in reverse	Select reverse gear
Front panel will not open/close	Front panel obstructed	Remove the obstruct and press OPEN to resume the monitor open/close sequence
Flashing image or interference appears on screen	DVD is not compatible with current TV system settings Image blurred, distorted, or dark	Change setup to accommodate disc
Prolonged image or improper height/width ratio display	Improper video signal connections	Check wiring and correct
	Improper aspect ratio setup	Use correct aspect ratio setting
Touch screen function disorder if the position is excursion	Under different condition, for example: temperature , humidity, tec.	Do touch screen calibrate
<b>DISC</b>		
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one
DVD does not start playback	Disc is warped or scratched	Use disc in good condition
	Disc is dirty or wet	Clean disc with soft cloth
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds Parental Lock rating limit	Change parental Lock settings to lower restriction
	Disc region code is not compatible with unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
Image blurred , distorted, or dark	Disc is illegally copied	Use original disc
No repeat or searching while playing VCD	PBC is on	Turn PBC off
Interruption occurred during MP3 playback	Disc is dirty or scratched	Clean disc or replace new disc
Bad Disc appears on display	Focus error	Press eject or RESET

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## SAFETY INFORMATION

Please read the manual carefully before operating this unit and keep it for future reference.

**CAUTION:** This unit is a class 1 laser product. To prevent direct exposure to the laser system, do not open the unit. The laser beam may hurt your eyes.

If the unit requires adjustments, contact an authorized service centre.

### USE THIS PRODUCT SAFELY

Be sure you fully understand the following safety information:

#### When driving

Keep the unit at an appropriate sound level. Driving with the sound at a level preventing you from hearing sounds outside and around the car may cause an accident.

#### When cleaning

Do not expose the product to water or excessive moisture. This could cause short circuit, fire or other severe damage.

#### When parked

Parking in direct sunlight can result in very high temperature levels inside your car. Let the interior and unit cool down before switching the unit on.

#### NOTE:

*Do not use and store the player in dusty, hot or humid environment.*

#### FUSE REPLACEMENT – WARNING!



Never replace any fuse with one of a higher value than the fuse supplied with your unit. Using a higher current rated fuse may cause damage to your unit and/or electrical wiring.

## TROUBLE SHOOTING

If any of problem persists after checking the below list, Please consult your nearest service dealer. Never attempt to disassemble and repair unit personally.

Problem	Cause	Action
<b>GENERAL</b>		
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Re wire not connected or incorrect voltage	Check connections for proper voltage(11-16vdc)
	Black wire not connected	Check connection to ground
	ACC Fuse blown or Car battery fuse blown	Install new fuse with correct rating
	Illegal operation	Press the RESET button
Unit has power (but no/low audio output)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
	Speakers damaged	Review wiring diagram and check
Poor sound quality or distortion	Speaker power rating not compatible with unit	Connect proper speakers
	Speaker is shorted	Check speaker wire contact
Unit resets itself when engine is off	Incorrect connection between ACC and Positive battery wire	Check wiring and correct
Unit blows fuse	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
Unit has audio (when in reverse)	Parking brake safety circuit not connected	Check connections at parking brake
	Parking brake not applied	Apply parking brake
Excessive skipping	Unit is not mounted correctly	Check mounting sleeve
	Physical defect in media	Check media for scratches
IR remote does not work	Dead battery	Replace battery
	Battery installed incorrectly	Remove battery and install correctly
<b>TUNER</b>		
Weak station searching	Auto antenna is not fully extended	Connect the auto antenna control cable properly
	Auto antenna not properly connected	Connect the auto antenna control cable properly
	LOCAL function is activated	Turn LOCAL function off

## **SPECIFICATIONS**

### **GENERAL**

Supply Voltage	: 14.4V DC (11-16V allowed)
Load Impedance	: 4Ω per channel
Max Power Output	: 50W x 4
Bass 100Hz	: ≥ 10dB
Treble 10KHz	: ≥ 10dB
Dimensions (approx.)	: 180 x 188 x 59 mm (d/w/h)
Mounting (approx.)	: 160 x 178 x 50 mm (d/w/h)

### **FM TUNER**

Frequency Range	: 87.5 – 108 MHz (Europe/Asia) 87.5 – 107.9 MHz (USA)
IF	: 10.7 MHz
Usable Sensitivity	: ≤ 15dBuV
Stereo Separation	: ≥ 26dB (1 KHz)
Frequency Response	: 100-20000Hz

### **AM TUNER**

Frequency Range	: 531 - 1602 KHz (Asia) 522 - 1620 KHz (Europe) 530 - 1710 KHz (USA)
IF	: 450 KHz
Usable Sensitivity	: ≤ 40dBuV

### **TV TUNER (Optional)**

Frequency Range	NTSC: 55.25 MHz~855.25MHz PAL: 48.25 MHz~855.25MHz
-----------------	---

### **DVD PLAYER**

Signal-to-noise Ratio	: ≥ 85dB (1 KHz)
Distortion	: ≤ 0.5%

### **MONITOR**

Resolution	: 480 (w) x 234 (H) (RGB)
Brightness	: 400 cd/m <sup>2</sup>
Contrast	: 250:1

### **NOTE:**

*Specifications and design are subject to modification without notice due to improvement in technology.*

## **FEATURES**

- Motorized TFT-LCD with 4 Pre-Set Angles & Last Angle Memory
- Accepts Add-On GPS Navigation Module, NAVIBOX-1 (Optional)
- Accepts Add-On Digital TV Tuner Module, DTV-1 (Optional)
- Car-Spec DVD Transport for Extreme Temperature Exposure
- Playback from DVDR/RW & CDR/RW Including VCD, MP3, MP4 & DivX
- Recall Memory for Last DVD Position
- IPOD Input Connection (requires IC-2 cable only) (Optional)
- Mini-USB Connection for MP3 & MP4 Playback From 16GB Flash Drive
- 16GB SD Card Reader for MP3, MP4, DivX & Xvid Playback
- 30MB Internal Memory for Background & Screen Saver Images
- 18 FM / 12 AM Station Memory
- 50w x 4 MOSFET Powered Speaker Level Outputs
- Front & Rear Pre-Amp Outputs
- Variable Subwoofer Pre-Amp Output with LPF (80, 120, 160Hz)
- A/V Outputs for Multiple Components
- A/V Inputs for Secondary Source
- Front Panel 3.5mm Auxiliary A/V Input
- Reverse Camera Input with Trigger
- Custom & Pre-Set EQ Settings
- Audio Staging Controls
- 12/24 Hour Clock
- USA/European Frequency Stepping
- NTSC/PAL Auto Selection
- High Definition Digital Panel with LED Back Light
- 400 NIT Backlight Brightness
- Built-In TV Tuner (Optional)
- 3 Selectable User Interface

### **Bluetooth Features (Optional)**

- Work with Most Bluetooth V2.0 Enabled Phones
- Noise & Echo Cancellation
- Contacts List Transferred for Easy Access Dialing
- Caller ID Shows Name and Number from Contacts List
- Recent Calls & Talk Time Logs
- A2DP for MP3 Playback

### **NOTE:**

*This user's manual is only for reference.*

*Modifying rights are reserved.*

*Specifications are subject to change without notice.*

## ACCESSORIES

**1**



Bolt x 1

**2**



Back Strap x 1

**3**



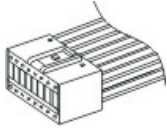
M5X5 Screws x 4

**4**



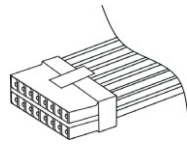
Keys x 2

**5**



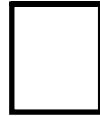
Power Wire x 1

**6**



Connector Wire x 1

**7**



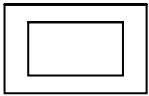
Operational Manual x1

**8**



Trim Bezel x 1  
(Small)

**9**



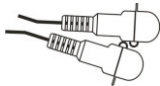
Trim Bezel x 1  
(Big)

**10**



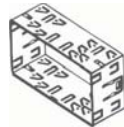
USB Cable x 1

**11**



AV IN Cable x 1

**12**



Mounting Sleeve x 1

**13**



External Microphone x 1  
(Optional)

**14**



Remote Control x 1

## 6. Screen Saver Time

Touch to adjust the screen saver time as following:  
3MIN - 5MIN - NEVER - 10S - 20S - 30S - 60S - 3MIN

## SYSTEM SETUP



### 1. RADIO AREA

Touch [LEFT] / [RIGHT] icons to switch the Radio Area as following:  
USA – JAPAN – ORIT – EUROPE – ASIA – USA

### 2. GUI

Touch [LEFT] / [RIGHT] icons to switch between the 3GUI's.  
I-SCREEN – RADIANT – METALLIC

### 3. EQ

Touch [LEFT] / [RIGHT] icons to switch the EQ as following:  
USER – POP – CLASSIC – ROCK – JAZZ – USER

### 4. LOUD

Touch [LEFT] / [RIGHT] icons to turn Loud on or off;

## OTHERS SETUP



### 1. SCREENDF

Touch the icon to restore all SCREEN default settings of System Parameters Setup.

### 2. SOUNDDEF

Touch the icon to restore all SOUND default settings of System Parameters Setup.

### 5. Buzzer

Touch to turn Buzzer on or off;

### 6. Balance / Fader

Touch [LEFT] / [RIGHT] icons to adjust the BALANCE parameters (Range: -9 to 9);  
Touch [FRONT] / [REAR] icons to adjust FADER parameters (Range: -9 to 9);

### 7. X-Bass

Touch to turn X-Bass on or off

### CLOCK SETUP



#### 1. Hour

Touch [UP] / [DOWN] icons to adjust the HOUR;

#### 2. Minute

Touch [UP] / [DOWN] icons to adjust the MINUTE;

#### 3. Time Display

Display the time currently.

#### 4. Time Mode

Touch to switch the time mode between 12-Hour and 24-Hour;

### SAVER SETUP



#### 1. Captured Images List

Touch [UP] / [DOWN] icons to select the image captured from DVD, SD card and USB.

#### 2. Screen Saver Images List

Touch [UP] / [DOWN] icons to select the image of screen saver.

#### 3. Desktop

Touch to set the selected image of captured images list as desktop image.

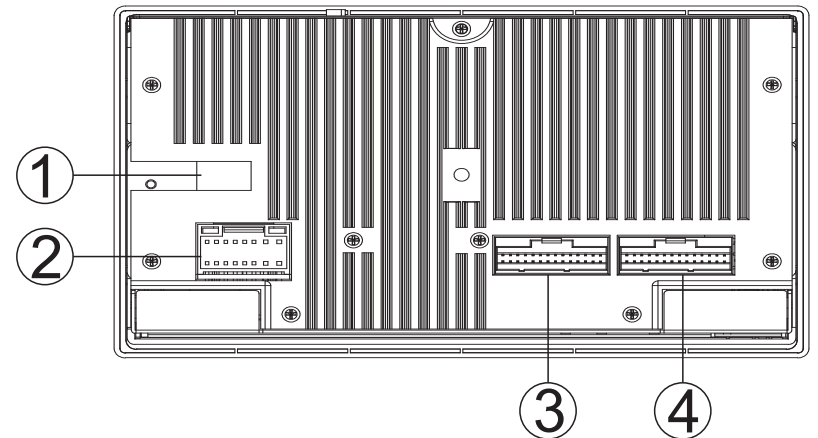
#### 4. Del

Touch to delete the selected image of screen saver images list.

#### 5. Add

Touch to add the selected image of captured images list as screen saver.

## WIRE CONNECTION

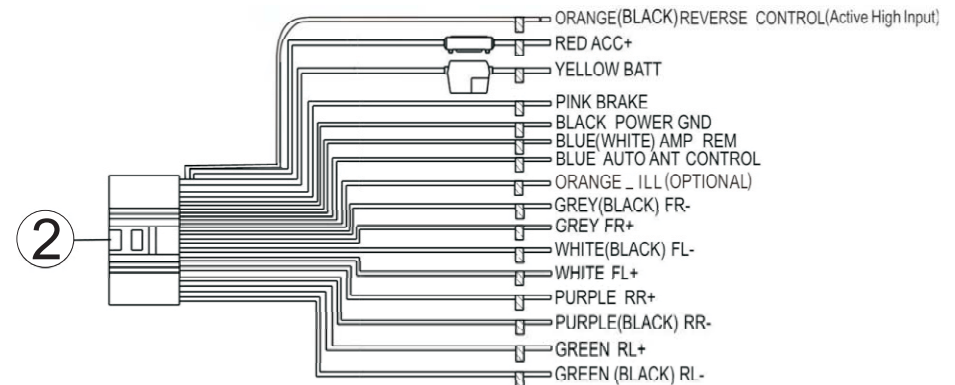
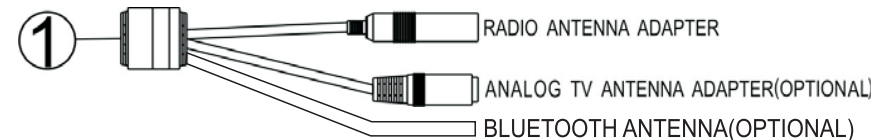


1. RADIO & ANALOG TV ANTENNA (OPTIONAL)

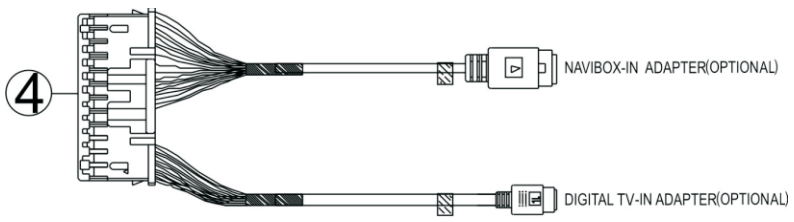
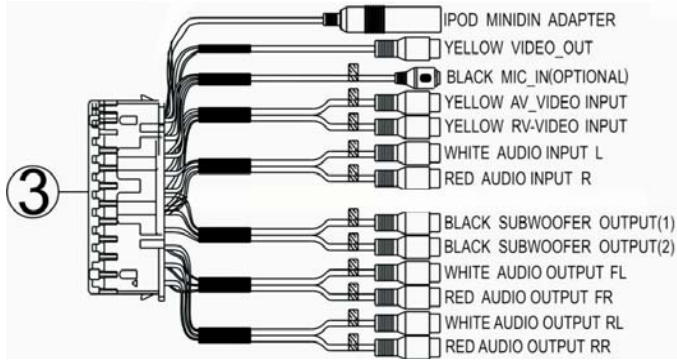
2. 16PIN SOCKET

3. AUDIO /VIDEO OUTPUT & INPUT

4. NAVI & DIGITAL TV ADAPTER (OPTIONAL)

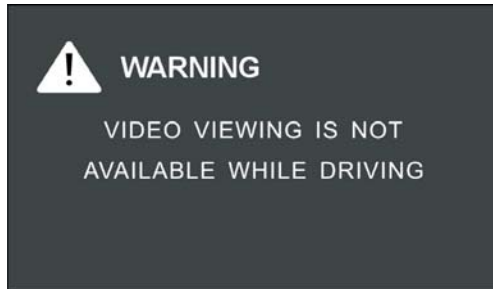






**Brake Control**

Connect the brake control wire AUTO\_ANT (see Wiring Diagram). It is necessary to connect the Brake Control wire to the Hand-brake switch of the car. While driving, the TFT monitor will display the alarm picture (see as follows) in order to ensure the safety.



Under the Rear View Mode, the Brake Control function is no effective.

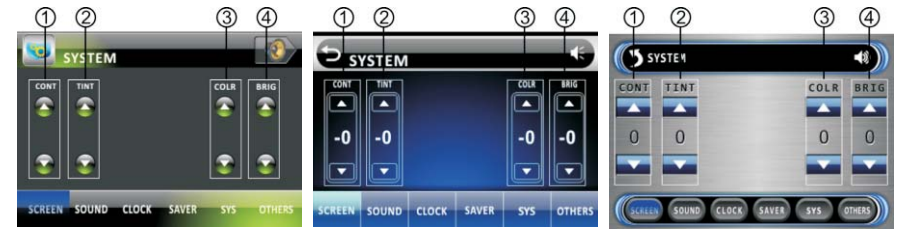
**Auto Antenna Control**

Connect the auto antenna control wire AUTO\_ANT (see Wiring Diagram). The antenna will lift when the unit startup; it will descend when the unit turnoff.

**SYSTEM PARAMETERS SETUP**

Touch the [SYSTEM] icon to enter the System Parameters Setup.

**SCREEN SETUP**



**1. Contrast**

Touch [UP] / [DOWN] icons to adjust the CONTRAST parameters (Range: -9 to 9);

**2. Tint**

Touch [UP] / [DOWN] icons to adjust the TINT parameters (Range: -9 to 9);

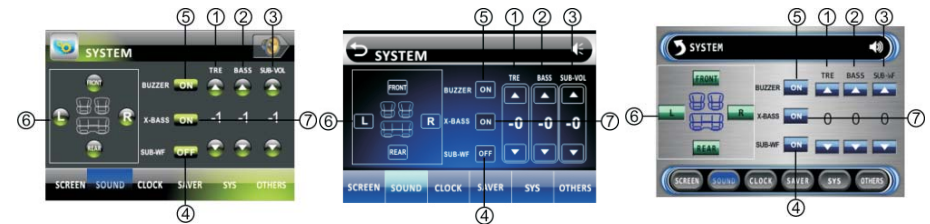
**3. Color**

Touch [UP] / [DOWN] icons to adjust the COLOR parameters (Range: -9 to 9);

**4. Brightness**

Touch [UP] / [DOWN] icons to adjust the BRIGHTNESS parameters (Range: -9 to 9);

**SOUND SETUP**



**1. Treble**

Touch [UP] / [DOWN] icons to adjust the TREBLE parameters (Range: -9 to 9);

**2. Bass**

Touch [UP] / [DOWN] icons to adjust the BASS parameters (Range: -9 to 9);

**3. Sub-Woofers Volume**

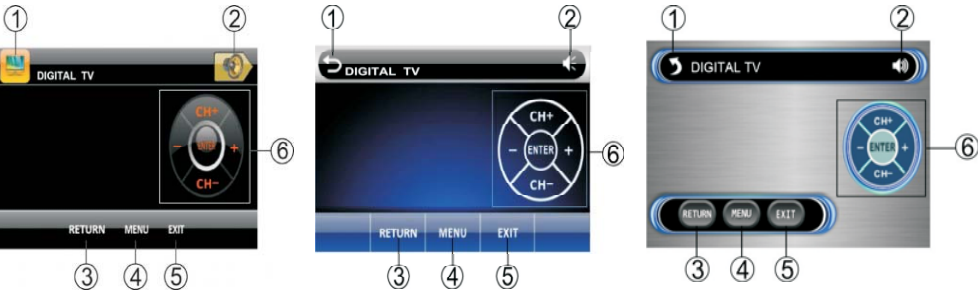
Touch [UP] / [DOWN] icons to adjust the SUB-WOOFER volume parameter (Range: 0 to 15);

**4. Sub-Woofers Frequency**

Touch [UP] / [DOWN] icons to switch the SUB-WOOFER frequency as following: OFF — 80Hz — 120Hz — 160Hz — OFF



## DIGITAL TV OPERATIONS (Optional)



**1. Current Source Indicator**

Display the source currently playing, touch to return the main menu.

**2. Mute**

Touch to switch off the sound; touch it again to resume to the previous volume level.

**3. Return**

Touch to return submenu to menu.

**4. Menu**

Touch to display the menu.

**5. Exit**

Touch to exit the menu.

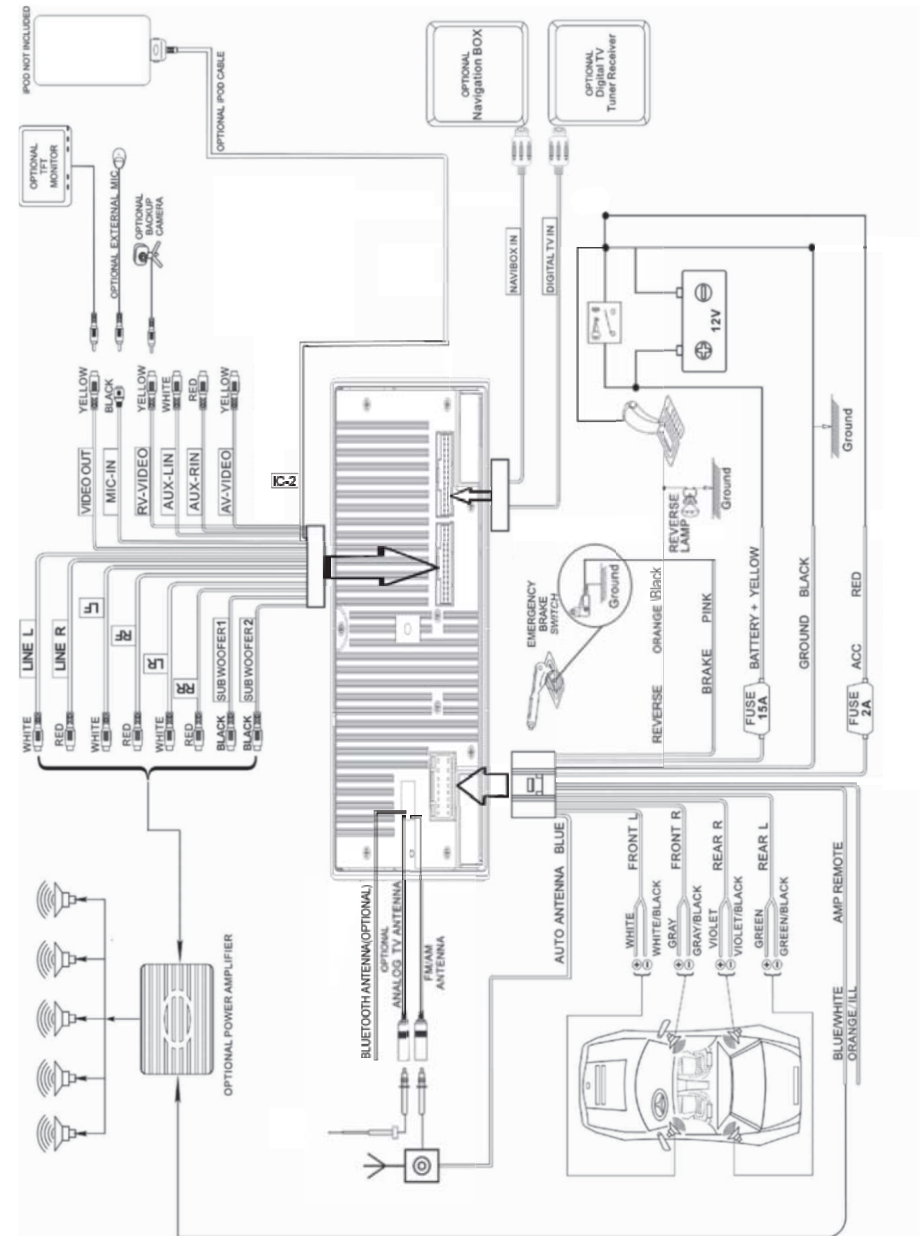
**6. Direction Arrows Keyboard**

Touch the arrows icons to select the item, touch the [ENTER] icon to confirm the selection.

**NOTE:**

*Under DIGITAL TV mode, please view all operations by DIGITAL TV Device DTV-1 User's manual.*

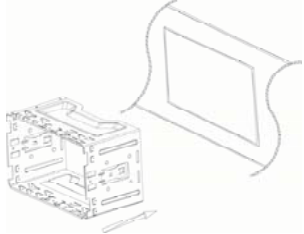
## Wiring Diagram



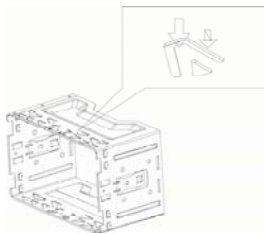
## UNIT INSTALLATION AND REMOVE

Installation Method 1:

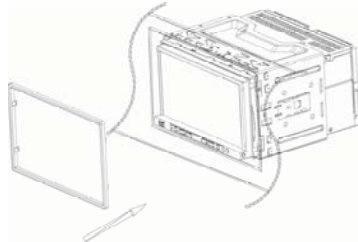
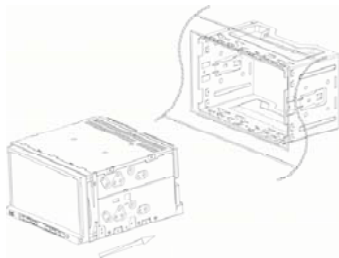
1 Install the mounting sleeve into the dashboard.



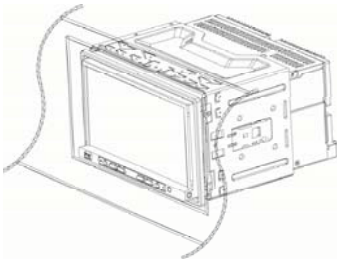
2 Bend the claws into place to secure the sleeve.



3 Slide the units into the mounting sleeve. 4 Install the trim bezel onto the unit.

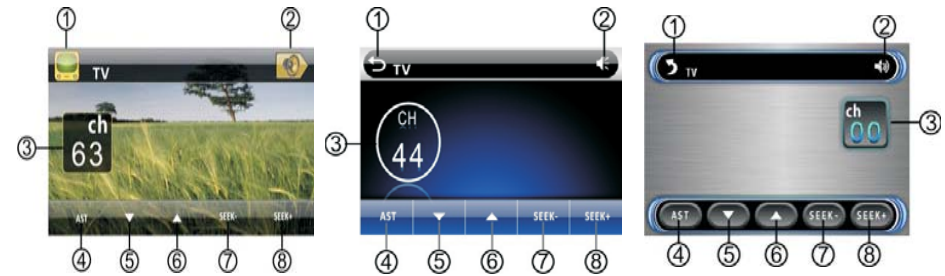


5 Sketch map when installation finished.



## TV OPERATIONS (Optional)

Touch the icon "TV" to enter the TV Mode:



**1. Current Source Indicator**

Display the source currently playing, touch to return the main menu.

**2. Mute**

Touch to switch off the sound; touch it again to resume to the previous volume level.

**3. Current Channel Indicator**

Display the TV channel currently playing.

**4. Auto Station Tune**

Touch to automatically seek all strongest stations available; touch any icon to stop the tuning.

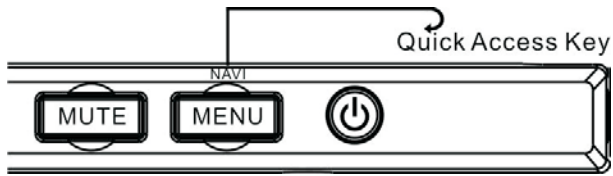
**5. / 6. Next Station - Down / Up**

After the Auto Station Tune, touch to select the stations downward / upward.

**7. / 8. Seek Next Station – Down / Up**

Touch to seek the next available channel by increasing / decreasing the tuning frequency.

### Quick Access Key [NAVI]

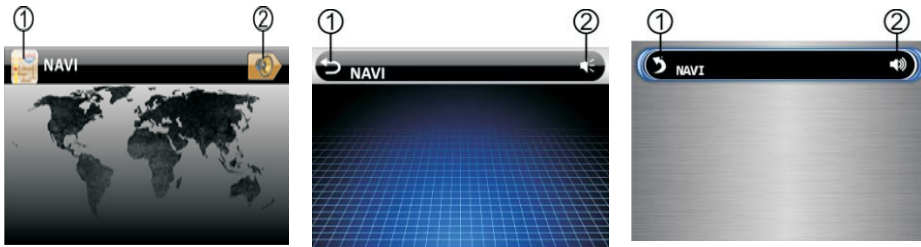


Under any working mode, press the [NAVI] button to switch to NAVI mode; press the [NAVI] button again to return the previous working mode. For example, under Radio mode, press the [NAVI] button to switch to NAVI mode; press the [NAVI] button again to quit the NAVI mode and return back the Radio mode.

Enter the NAVI mode by Quick Access Key, the previous working mode is still working on background. For example, under Radio mode, press the [NAVI] button to switch to NAVI mode, and you can still listen to the radio stations. But when voice of Navigation comes, the radio will be interrupted until voice of Navigation ends.

### NO NAVIBOX CONNECTION

Touch the "NAVI" icon to enter the following screen if the NAVIBOX not connected:



#### 1. Current Source Indicator

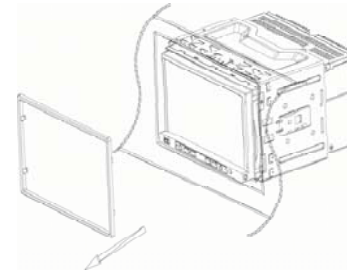
Display the source currently playing, touch to return the main menu.

#### 2. Mute

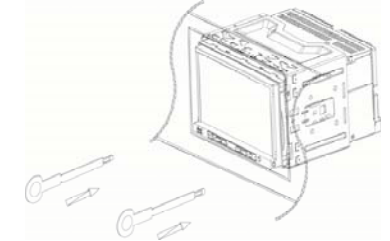
Touch to switch off the sound; touch it again to resume to the previous volume level.

### Removal Method 1:

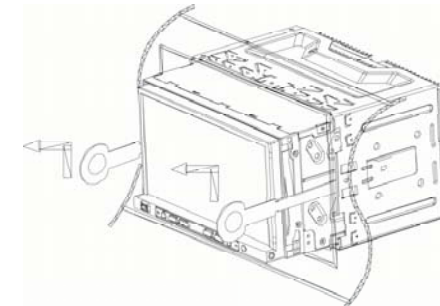
1 Detach the trim bezel.



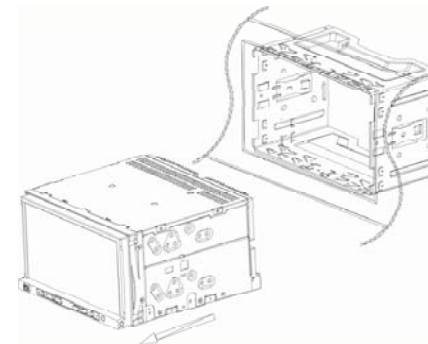
2 Insert the keys into the aperture between the unit and the mounting sleeve to release the internal locks.



3 Pull the unit out of the mounting sleeve.

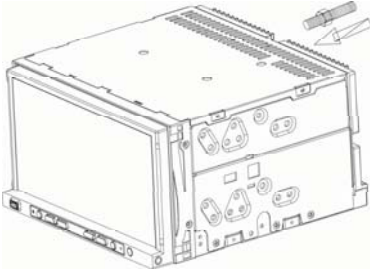


4 Sketch map when removal finished.

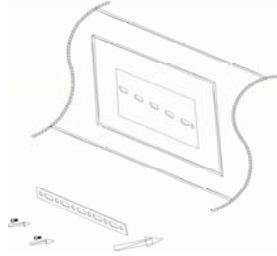


## Installation Method 2:

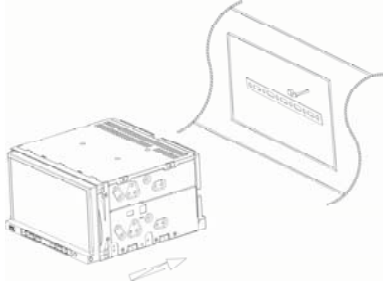
1 Tighten the bolt onto the rear panel of the unit.



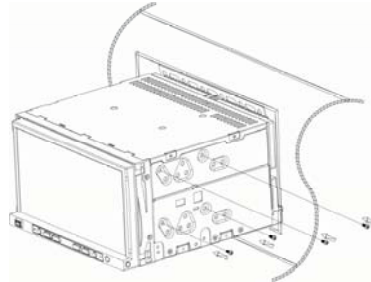
2 Tighten the back strap onto your car inside the dashboard.



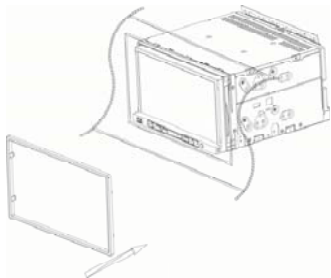
3 Place the unit into the dashboard; make the bolt bar across back strap; and then fix the bolt by the Nut M5.



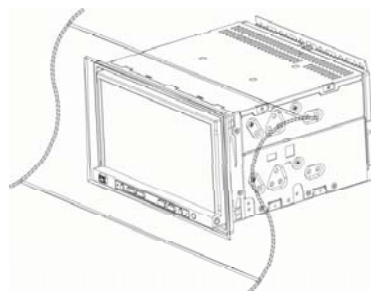
4 Screw the unit on the car on the two sides with M5x5 SCREWS.



5 Install the trim bezel onto the unit.



6 Sketch map when installation finished.



## Go to NAVI mode

Touch the icon "NAVI" to enter the NAVI Mode if NAVIBOX connected:

Following screen will be displayed:

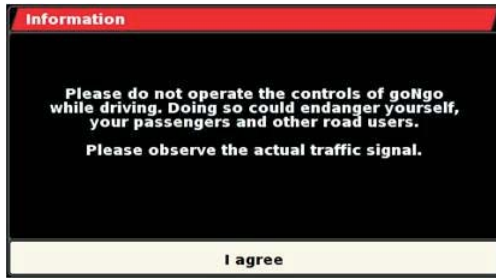


Read information and touch "I agree" button at the bottom of the screen.

Enter the NAVI mode by main menu, the NAVI operations are effective only, all other processes are disable such as Radio, CD etc.

**NOTE:**  
*Under NAVI mode, please view all operations by Navigation Device NAVIBOX-1 User's manual.*

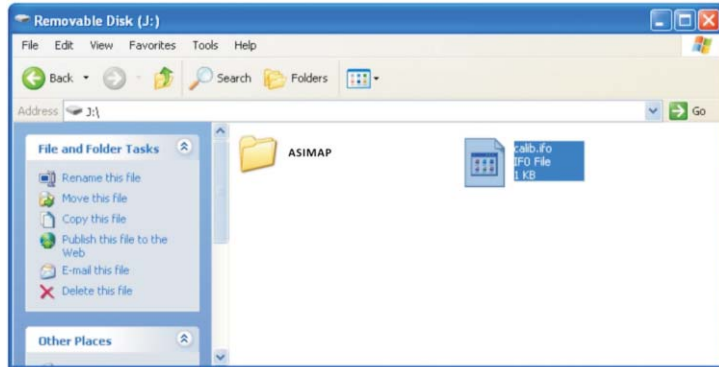
The Touch Screen is restored to their default positions. Touch anywhere of panel to finish the calibration and go to the following screen:



Read information and touch "I agree" button at the bottom of the screen, then enter the NAVI mode.

**NOTE:**

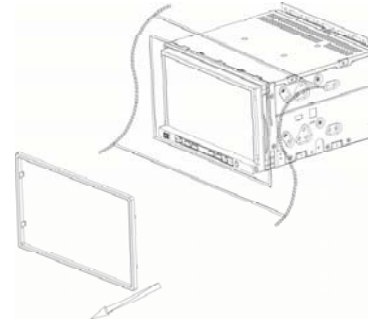
*If change the NAVIbox to connect another unit, please take out the SD card from the NAVIbox and connect with computer, the following screen is displayed on computer:*



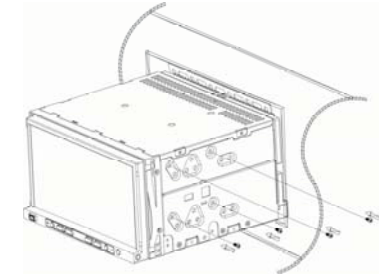
*Delete the file "calib.ifo" only. Insert the SD card into NAVIbox again, and connect the NAVIbox with another unit.*

**Removal Method 2:**

1 Detach the trim bezel.

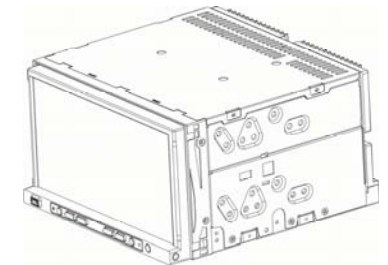
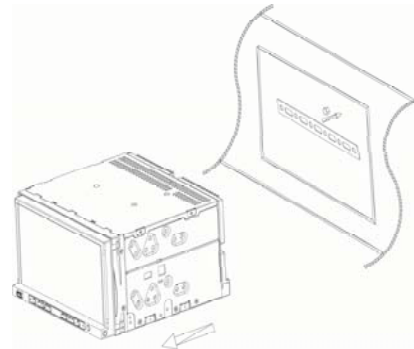


2 Unscrew the unit off the car on the two sides.



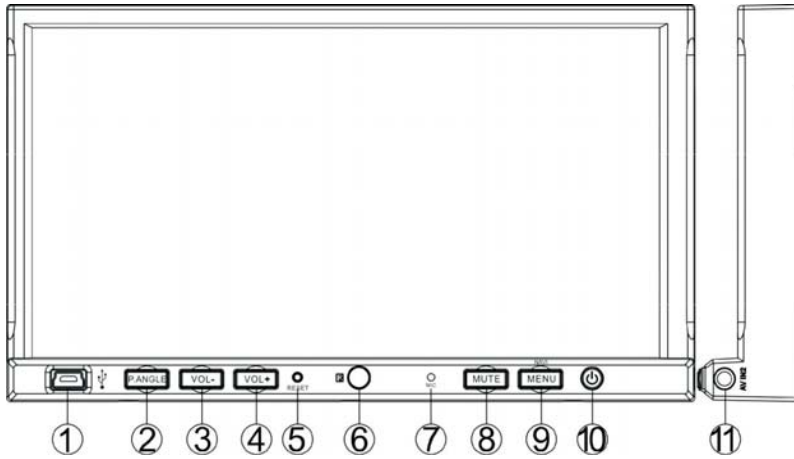
3 Unscrew the Nut M5 screw on the rear

4 Sketch map when removal finished. side of the unit and pull out the unit.





## FRONT PANEL



- |             |           |                  |
|-------------|-----------|------------------|
| 1. MINI USB | 5. RESET  | 9. MENU/NAVI     |
| 2. P. ANGLE | 6. REMOTE | 10. POWER/SOURCE |
| 3. VOLUME-  | 7. MIC    | 11. AV IN2       |
| 4. VOLUME+  | 8. MUTE   |                  |

### 1. Mini USB

The unit will be switched to USB Mode automatically when USB connected, and play the songs, pictures, videos in USB.

### 2. P.ANGLE

#### Inserting Disc

Touch the [P.ANGLE] button, the front panel will slide down to Position 1; then insert a disc into the Disc Loading Slot; the panel will slide back automatically.

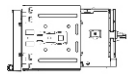
#### Ejecting Disc

Touch the [P.ANGLE] button, the front panel will slide down to Position 1; then eject a disc; the panel will slide back automatically if no action is taken.

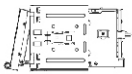
### TFT Viewing Angle Adjustment:

Hold on touch the [P.ANGLE] button to adjust the viewing angle as following:

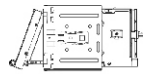
Angle 1- Angle 2- Angle 3- Angle 4- Angle 1



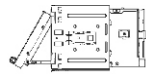
Angle 1



Angle 2



Angle 3



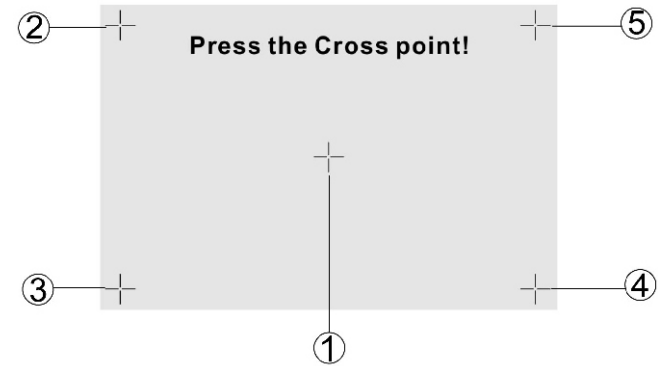
Angle 4

**NOTE:** you can also make the same adjustments with the remote control. Simply press and hold the [P.ANGLE] button to adjust according to your preference.

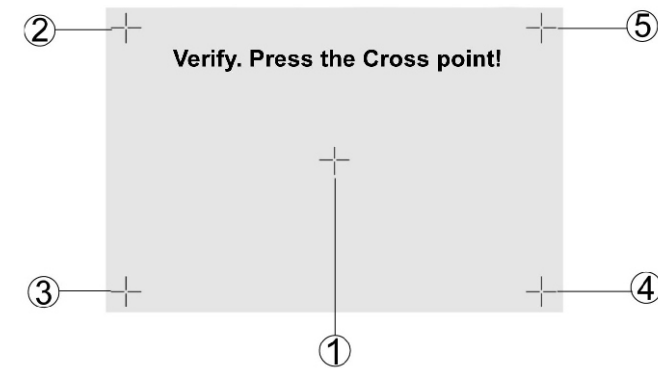
## NAVI OPERATIONS (Optional)

### Touch Screen Calibration

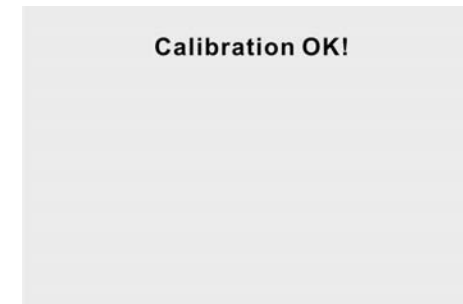
When 1<sup>st</sup> time to enter NAVI mode, you will see the calibration screen. Please touch the points from 1 to 5 by using a ballpoint pen or pencil.



To verify the calibration, please touch the points from 1 to 5 again.



Then the following screen is displayed:





## AV IN 1 OPERATIONS

Touch the icon "AV IN1" to enter the AV IN1 Mode:



### 1. Current Source Indicator

Display the source currently playing, touch to return the main menu.

### 2. Mute

Touch to switch off the sound; touch it again to resume to the previous volume level.

### NOTE:

There are 2 RCA Audio Inputs & 1 RCA Video Input for unit.

## AV IN 2 OPERATIONS

Touch the icon "AV IN2" to enter the AV IN2 Mode:



### 1. Current Source Indicator

Display the source currently playing, touch to return the main menu.

### 2. Mute

Touch to switch off the sound; touch it again to resume to the previous volume level.

### 3. VOL- / 4. VOL +

Press the [VOL +] button to increase the volume.

Press the [VOL -] button to decrease the volume.

### 5. Reset

Press and hold this button to switch back to all the original factory settings.

Keep in mind this will erase all your preset radio stations and any EQ settings you may have made and saved.

### 6. Remote

Remote infrared receiver

### 7. MIC (Optional)

Microphone for Bluetooth.

### 8. Mute

Press to switch off the sound; press it again to resume to the previous volume level.

### 9. Menu/Navi

Touch to access the Main Menu.

Hold on pressing to access the Navigation Menu.

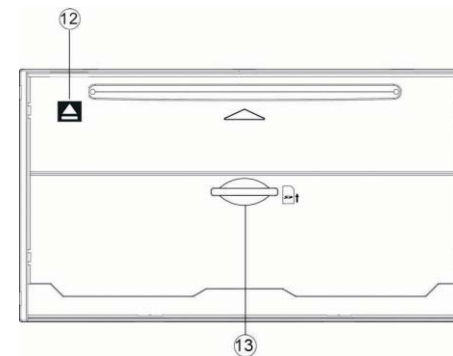
### 10. Power/Source

When ACC is on, press the button to turn the unit on; hold on pressing the button to turn off the unit.

When the unit is on, press to switch between different modes.

### 11. AV IN 2

Connect an external audio/video device to this jack to watch to the device through your car video system.



12. EJECT

13. SD CARD SLOT

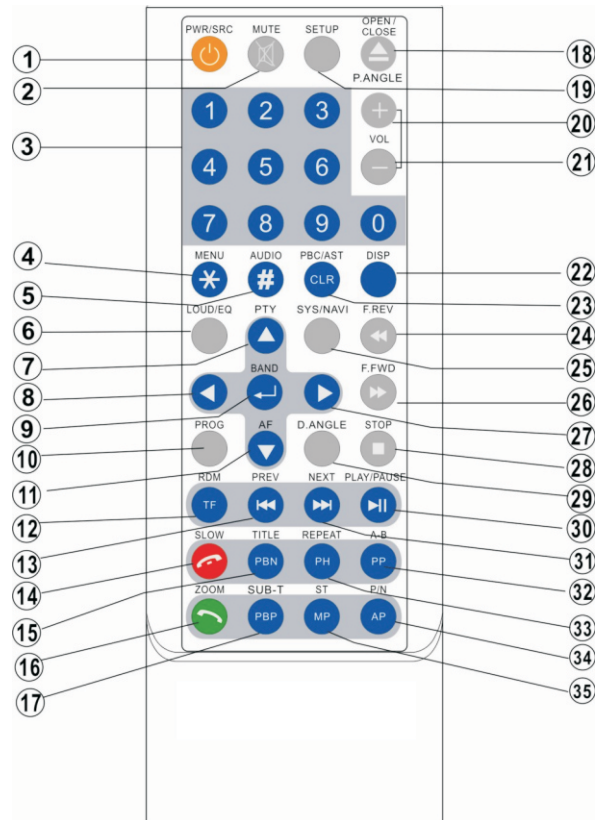
### 12. EJECT

When flip down the front panel, press [EJECT] button to eject / load a disc.

### 13. SD CARD SLOT

The unit will be switched to SD CARD Mode automatically when SD CARD connected, and play the songs, pictures, videos in SD CARD.

## REMOTE CONTROL



- |                        |                                   |                      |
|------------------------|-----------------------------------|----------------------|
| 1. POWER/SOURCE        | 13. PREVIOUS                      | 25. SYSTEM / NAVI    |
| 2. MUTE                | 14. SLOW / END CALL               | 26. F.FWD            |
| 3. NUMBER BUTTONS      | 15. TITLE / PBN                   | 27. RIGHT(Seek up)   |
| 4. MENU / *            | 16. ZOOM / CALL                   | 28. STOP             |
| 5. AUDIO / #           | 17. SUBTITLE / PBP                | 29. D.ANGLE          |
| 6. EQ / LOUD           | 18. OPEN / CLOSE / P.ANGLE/ EJECT | 30. PLAY / PAUSE     |
| 7. UP (TUNE UP)/PTY    | 19. SETUP                         | 31. NEXT             |
| 8. LEFT (SEEK DOWN)    | 20. VOLUME+                       | 32. A-B / PHONE PAIR |
| 9. ENTER / BAND        | 21. VOLUME-                       | 33. REPEAT / PHONE   |
| 10. PROGRAM            | 22. DISPLAY                       | 34. PAL / NTSC / AP  |
| 11. DOWN(Tune Down)/AF | 23. PBC / AST / CLEAR             | 35. STEREO / MP      |
| 12. RANDOM / TRANSFER  | 24. F.REV                         |                      |

### NOTE:

*This is an universal remote, some functions would be optional.*

## SD CARD OPERATIONS

Under the SD CARD Mode, all operations are same as DVD Mode.

1. Touch the [SD CARD] icon to access to SD CARD Mode if SD / MMC Card inserted.
2. The unit will switch to SD CARD Mode automatically and enter into track playing when SD CARD connected. Press the [<] button once on remote control or Direction Arrows Keyboard on the screen to retreat to file select, and press the [<] button again to retreat to Music playing. Then press the [>] button once to select Photo playing, press the [>] button again to select video playing. Touch [v] / [^] to go to the previous/next song, picture or video when under Music/Photo/Video playing.
3. When music/video playback, touch the stop icon once to stop the playback, touch the [Play/Pause] icon to resume the playback again. Touch the icon twice to stop the playback, touch the [Play/Pause] icon to start the playback from the beginning of the music/video.
4. When SD Card disconnected, the unit will switch to RADIO Mode automatically if there is no SD Card in the unit; the unit will switch to SD CARD Mode automatically if there is a SD Card in the unit.

## USB OPERATIONS

Under the USB Mode, all operations are same as SD CARD operations.

## DIM OPERATIONS

Touch the icon [DIM] to switch brightness modes as following:

DIM 1 → DIM 2 → DIM 3

↑  
The screen brightness will decrease step by step from DIM 1 → DIM 2 → DIM 3.



### 8. Repeat

Touch to repeat current song, touch it again to repeat songs as ALL.

### 9. Random

Touch to play songs randomly.

### 10. Video

Touch to access the video page.



①



①



①

Under the Video Page, use the controller of IPOD itself to control all operations of IPOD including play music, videos and view pictures.

### 1. Music

Touch the icon to access the music page.

### NOTE:

*The TV Output in IPOD SETUP should be effective, and the pictures & videos could be displayed on the TFT monitor of unit.*

*Under IPOD mode, the unit may pause or delay, when any function button is pressed, (play/ prev/ next and so on) or if pressed too many times. IPOD may freeze sometimes, after disconnecting from the head-unit. Please reset your IPOD.*

### 1. [POWER/SOURCE]

When ACC is on, press the button to turn the unit on; hold on pressing the button to turn off the unit.

When the unit is on, press to switch between different modes.

### 2. [MUTE]

Press to switch off the sound; press it again to resume to the previous volume level.

### 3. [NUMBERS 0~9]

Radio Mode, press the buttons 1~6 to select a preset station, hold on touching to store current radio frequency to the preset station.

DVD Mode, When playing DVD, VCD, CD, MP3, press the buttons 0~9 to input the number of track, press the [BAND] button to confirm.

TV Mode, press the buttons 0~9 to choose the channel and press the [BAND] button to confirm.

Bluetooth Mode, press the buttons 0~9 to input phone numbers.

### 4. [MENU / \*]

DVD Mode, press to return to the boot menu when playing DVD disc.

Bluetooth Mode, press to input the symbol \*.

### 5. [AUDIO / #]

DVD Mode, press to change dialogue language when playing DVD disc; Press to select different audio channels when playing VCD, CD disc.

Bluetooth Mode, press to input the symbol #.

### 6. [LOUD/EQ]

Press to adjust the EQ setting as following:

USER – POP – CLASSIC – ROCK – JAZZ – USER

Hold on pressing to switch between LOUD ON / OFF.

### 7. [^]/[PTY] / 8. [ < ] / 11. [v]/ [AF] / 27. [ > ] Direction Key

DVD Mode and System Parameters Setup, press the [v] / [^] buttons to move the cursor upward / downward to select item. Press the [ < ] / [ > ] buttons to move the cursor leftward / rightward to select item.

Radio Mode, press the [ < ] / [ > ] buttons to switch the stored stations. Hold on pressing the [ < ] / [ > ] buttons to fast seeking the next available channel by decreasing / increasing the tuning frequency; seeking will stop by pressing any button. Press the [v] / [^] buttons to decrease / increase the frequency step by step. Hold on pressing the [^] / [PTY] to activate/deactivate the PTY function, hold on press the [v] / [AF] to activate/deactivate the RDS operation.

TV Mode, hold on pressing the [ < ] / [ > ] buttons to fast tuning channel forward the low / high frequency automatically. Press the [^] / [v] buttons to select the stored channel upward / downward.

Bluetooth Mode, press [ < ] / [ > ] buttons to switch between dialing page, phonebook, music and setup page.

GPS Mode, press the [v] / [^] buttons to decrease / increase the brightness of the screen.

### 9. [BAND/ENTER]

DVD Mode, press to confirm the selection.

Radio Mode, press to switch the wave band as following:

FM1 – FM2 - FM3 - AM1- AM2 - FM1

TV Mode, press to switch the TV audio as following:

NTSC – PAL/BG – PAL/I – PAL/DK – NTSC

Hold on pressing to switch the TV system area as following:

USA – CCIR – ITALY – AUS – NZ – USA

Bluetooth Mode, press the button to turn on/off selected item.

### 10. [PROGRAM]

DVD Mode, press to enter / exit the PROGRAM Function when playing the DVD, VCD, CD disc.

### 12. [RANDOM/TRANSFER]

DVD Mode, press to turn RANDOM function on / off when playing DVD, VCD, CD disc.

Bluetooth Mode, press to transfer the call between the unit and your cell phone when talking the phone.

### 13. [PREVIOUS] / 31. [NEXT]

DVD Mode, press to go to the pervious / next chapter, track or song.

### 14. [SLOW/END CALL]

DVD Mode, press to slow motion playback at 1/2x speed when playing DVD/VCD disc. Each press changes speed from 1/2x to 1/4x to 1/8x to 1/16x then back to normal play.

Bluetooth Mode, press to reject or hang up a call.

### 15. [TITLE/PBN]

DVD Mode, press to enter the title menu when playing DVD disc.

Bluetooth Mode, press to enter the next page of phone number list in phonebook.

### 16. [ZOOM/CALL]

DVD Mode, press to zoon the picture display when playing DVD, VCD disc. Each press changes speed from 2x to 3x to 4x to 3x to 2x then back to normal play.

Bluetooth Mode, press to call a number or to receive a cell phone call.

### 17. [SUB-T/PBP]

DVD Mode, press to change the subtitle language when playing DVD disc.

Bluetooth Mode, press to enter the previous page of phone number list in phonebook.

### 18. [OPEN/CLOSE/P.ANGLE/EJECT]

Press the button to open the monitor to eject the disc, press it again to close the monitor.

Hold pressing the button to enter into adjusting mode, press it again to adjust the angle of the front panel as following:

Angle 1 - Angle 2 - Angle 3 - Angle 4 - Angle 1

### 19. [SETUP]

DVD Mode, press to enter/ exit the DVD SETUP menu.

### 20. [VOL+] / 21. [VOL-]

Press to increase / decrease the volume.

Hold on pressing the button to keep increasing/decreasing the volume.

## IPOD OPERATIONS (Optional)

1, Touch the [IPOD] icon to switch IPOD Mode when IPOD connected.

2, The unit will switch to IPOD Mode automatically when IPOD connected.

3, The unit will switch to RADIO Mode automatically when IPOD disconnected.



### Music Page

Under the Music Page, it is not effective for the controller of IPOD itself, use the keys of unit to control the operation and all operations are same as DVD Mode.

#### 1. Current Source Indicator

Displays the source currently playing, touch to return the main menu.

#### 2. Mute

Touch to switch off the sound; touch it again to resume to the previous volume level.

#### 3.Menu

Touch to appear below image, then touch [UP] / [DOWN] icons to select songs.



#### 4. Previous / 5. Next

Touch to go to the pervious/ next chapter, track or song.

#### 6. Play/Pause

Touch to pause or resume the playback.

#### 7.Numeric keypad

Touch to appear below image ,then select songs by numbers immediately.



### 8. End Call

Touch to reject or hang up a call.

### 9. / 10. Previous Page / Next Page

There are 5 numbers in each page, touch to see the previous / next page.

### Phone Number List

Touch the icon 1~5, when item is changed to yellow color, the item is selected. And touch it again and the item is changed to green color, the operation is active and you will see the below image:



#### 1, Information Display

You will see the phone number of the item in blue color.

#### 2, Phone Number

If this number is stored, you will see the name; if not, you will see the phone number. Touch the icon when item is changed to yellow color, the item is selected.

#### 3. Phonebook

Touch to return the phonebook page.

### AUDIO



#### 1. Previous / 2. Next

Touch to select the previous / next track.

#### 3. Play / Pause

Touch to stop the playback; touch it again to continue playing.

#### 4. Stop

Touch to stop the playback, touch the [Play/Pause] icon to start the playback from the beginning.

### 22. [DISPLAY]

Under main menu, press to set the background by default picture. DVD Mode, press to display current playback information. Bluetooth Mode, press to return to the previous page.

### 23. [PBC/AST/CLEAR]

DVD Mode, press to select the PBC function on / off when playing VCD disc.

Radio Mode, press to review stored stations; Hold on pressing to automatically program the 6 strongest stations available into the presets in the each wave band. TV Mode, automatically seek the stations available. Bluetooth Mode, press to cancel or clear the numbers you have input.

### 24. [F.REV] / 26. [F.FWD]

DVD Mode, press to fast reverse / fast forward at 2x speed. Each press changes speed from 2x to 4x to 8x to 16x to 32x then back to normal play. Press the [PLAY/PAUSE] button to resume to normal playback.

### 25. [SYSTEM/NAVI]

Press to enter / exit the System Parameter Setup menu when playing DVD, VCD and CD disc.

Hold on pressing to enter / exit the NAVI Mode.

### 28. [STOP]

DVD Mode, when DVD/VCD/CD disc playback, press the button once to stop the playback, press the [Play/Pause] button to resume the playback again. Press the button twice to stop the playback, press the [Play/Pause] button to start the playback from the beginning of disc. When MP3 disc playback, press the button to stop the playback, press the [Play/Pause] button to start the playback from the beginning of track.

### 29. [D.ANGLE]

DVD Mode, press to select different viewing angles with interactive DVD media during playback.

### 30. [PLAY/PAUSE]

DVD Mode, press to pause or resume the playback.

### 32. [A-B/PHONE PAIR]

DVD Mode, press to set point A, press it again to set point B, then the unit starts to repeat from A to B. When playing DVD, MP3, press it again to stop repeating. When playing VCD, CD, press it again to repeat all tracks.

Bluetooth Mode, press to start phone-pairing.

### 33. [REPEAT/PHONE]

DVD Mode, press to repeat as CHAPTER-TITLE-ALL-REPEAT OFF when DVD playback. Press to repeat as TRACK-ALL-REPEAT OFF when VCD/CD playback. Press to repeat as REPEAT ONE-REPEAT ALL-REPEAT OFF when MP3 playback.

Bluetooth Mode, press to break off or connect cell phone with the unit.

### 34. [P/N/AUDIO PLAYER]

DVD Mode, press to switch the video output (PAL/NTSC) when playing DVD disc. Bluetooth Mode, press to enter into AUDIO PAIRING.

### 35. [STEREO/MUSIC PAIR]

Radio Mode, press to turn the stereo on / off under.

Bluetooth Mode, press to break off or connect the music storage medium with the unit.

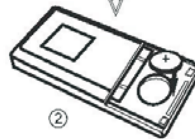
### REPLACING THE BATTERIES

If the remote control has no function or if the operating range reduced, replace the old battery with new one.

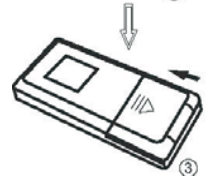
1. Pull out the battery holder. Follow the arrow 1 slide it to the right toward the battery while at the same time pull the battery holder away from the remote control.



2. Place the new battery. Place the new lithium battery with the (+) side up.



3. Push the holder back. Using the finger to push in the holder back until the locking sound is heard.



When talking, you will see the below image:



When end the call, you will see the below image:



### PHONEBOOK



#### 1. My Phonebook

The phone numbers are stored in phone.

#### 2. SIM Phonebook

The phone numbers are stored in SIM card.

#### 3. Dialed Call

The phone numbers are dialed in phone.

#### 4. Received Call

The phone numbers are received in phone.

#### 5. Missed Call

The phone numbers are missed in phone.

#### 6. Transfer

When talking the phone, touch to transfer the call between the unit and cell phone.

#### 7. Call

Touch to call a selected number from phonebook or to receive a cell phone call.



## PHONE CALL



1. Call  
Touch to call a number or receive a cell phone call. Touch to call the last number if no number input.
2. Clear  
Touch to cancel or clear the numbers you have input.
3. End Call  
Touch to reject or hang up a call.
4. Transfer  
When talking the phone, touch to transfer the call between the unit and cell phone.
5. Number Keys  
Touch the icons to input a phone number.
6. Information Display

## CALL OUT

When call out, you will see the below information:

**CALL OUT.\*\*\*\*\***

When talking, you will see the below information:

**TALKING. \*\*\*\*\***

When end the call, you will see the below information:

**END CALL.\*\*\*\*\***

## CALL IN

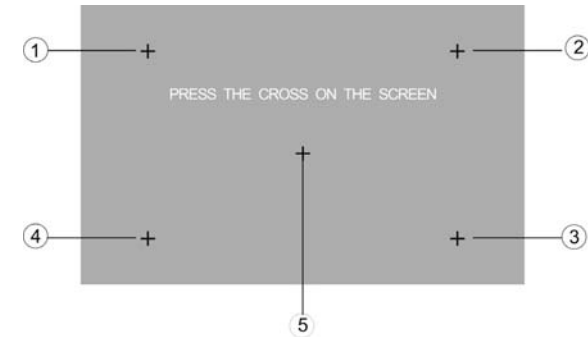
When call in, you will see the below image:



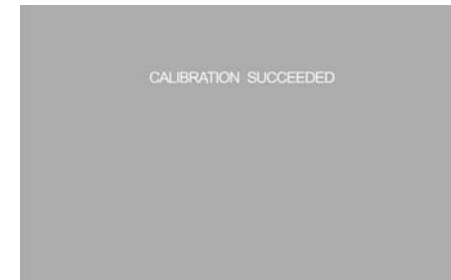
## TOUCH SCREEN OPERATIONS

### TOUCH SCREEN CALIBRATION

When "Power Off", press the buttons 2, [BAND] of remote control to enter the CALIBRATION page:



To touch the points from 1 to 5 until the points change to next cross by using a ballpoint pen or pencil. After all 5 points have been touched, the unit has been finished the CALIBRATION. If the calibration is succeeded, the unit would display the following page and then power off automatically.



If the calibration is failed, the unit would display the following page and please operate the above processes again.



## MAIN MENU (3 Selectable User Interface)



- 1, Touch to access the **DVD** mode.
- 2, Touch to access the **RADIO** mode.
- 3, Touch to access the **NAVI** mode. (Optional)
- 4, Touch to access the **IPOD** mode.
- 5, Touch to access the **DIGITAL TV** mode. (Optional)
- 6, Touch to access the **SD CARD** mode.
- 7, Touch to access the **BLUETOOTH** mode. (Optional)
- 8, Touch to access the 2<sup>nd</sup> page of MAIN MENU.



- 1, Touch to access the **TV** mode. (Optional)
- 2, Touch to access the **USB** mode.
- 3, Touch to access the **AV IN1** mode.
- 4, Touch to access the **AV IN2** mode.
- 5, Touch to access the **SYSTEM PARAMETERS SETUP**.
- 6, Touch to change the Brightness of the screen.
- 7, Touch to access the 1<sup>st</sup> page of MAIN MENU.
- 8, Touch to access the previous working mode.

## 3. Phone Pairing

Touch the icon and the below words on information display:

**PHONE PAIR WAITING**

Then set the phone to pair with unit. When pairing finished, set the phone connect with unit, then you can see the phone name on information display.

Touch the icon again to cancel the pairing and the below words on information display:

**PHONE PAIR FAIL**

## 4. Audio Pairing

Touch the icon and see the below words on information display:

**AUDIO PAIR WAITING**

Then set the audio device to pair with unit. When pairing finished, set the audio device connect with unit, then you can see the audio device name on information display.

Touch the icon again to cancel the pairing and the below words on information display:

**AUDIO PAIR FAIL**

## 5. Pin Code

You can change the PIN code by remote control. Press the [CLR] button of remote control to clear the PIN code, and input the new 4 digitals number, press the [SETUP] button of remote control to save the new code.

## 6. Information Display

### NOTE:

The unit can pair with totally 5 different devices including cell phones and audio players. Use the [PHONE] / [AUDIO PLAYER] buttons of remote control to connect / disconnect the device.

- 1, When you want to connect another paired cell phone with unit, to press the [PHONE] button of remote control to disconnect the current connecting cell phone; use the another cell phone to connect with the unit without pairing operations.
- 2, When you disconnected the current connecting cell phone, also you can press the [PHONE] button of remote control to connect the cell phone with the unit again.
- 3, When you want to connect another paired audio player with unit, to press the [AUDIO PLAYER] button of remote control to disconnect the current connecting audio player; use the another audio player to connect with the unit without pairing operations.
- 4, When you disconnected the current connecting audio player, also you can press the [AUDIO PLAYER] button of remote control to connect the audio player with the unit again.

## BLUETOOTH OPERATIONS (Optional)

Touch the [BLUETOOTH] icon to access the Bluetooth Mode:



**1. Current Source Indicator**  
Displays the source currently playing, touch to return the main menu.

**2. Mute**  
Touch to switch off the sound; touch it again to resume to the previous volume level.

**3. Phone Call**  
Touch to enter the phone calling.

**4. Phone Book**  
Touch to enter the phone book lookup.

**5. Audio**  
Touch to enter the audio device operation.

**6. Settings**  
Touch to enter the Bluetooth settings.

## SETTINGS



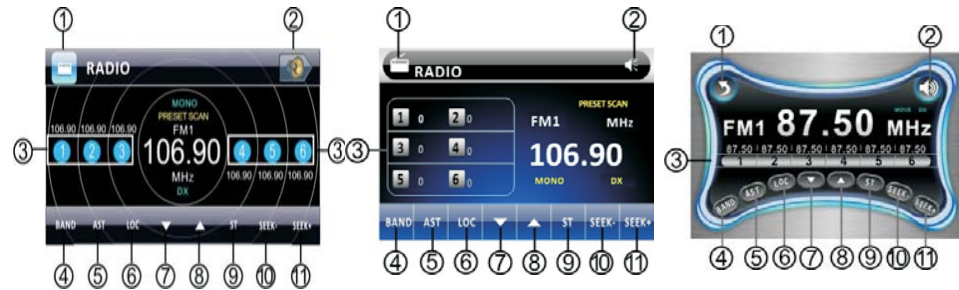
Touch the icon 1~5, when item is changed to yellow color, the item is selected. And touch it again and the item is changed to green color, the operation is active.

**1. Auto Answer**  
Touch to select auto / manual answer when call is coming.

**2. Phone Connect**  
Touch to select auto / manual phone connect when return back the car.

## RADIO OPERATIONS

Touch the [RADIO] icon to access to Radio Mode.



**1. Current Source Indicator**  
Display the source currently playing, touch to return the main menu.

**2. Mute**  
Touch to switch off the sound; touch it again to resume to the previous volume level.

**3. Preset Stations**  
Touch to select a preset station, hold on touching to store current radio frequency to the preset station.

**4. BAND**  
Touch the icon to switch the FM/AM wave band as following:  
FM1 - FM2 - FM3 - AM1- AM2 - FM1

**5. Auto Station Tune**  
Touch to automatically program the 6 strongest stations available into the presets in the each wave band; touch any icon to stop the tuning. After tune, the unit will scan through all tunable presets stations and play them for 5 seconds each; touch any icon to stop the playing.

**6. Local**  
Touch to set the local on / off. When you are using the local searching function, you can only receive the radio station with strong enough signals and fine state.

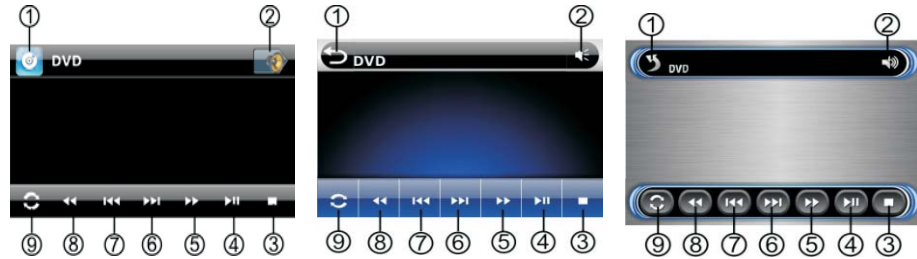
**7. / 8. Tune Frequency - Down / Up**  
Touch to tune the radio to a lower / higher frequency by one frequency step. Hold on touching for continuous tuning down / up.

**9. Stereo**  
Touch to set the stereo on / off.

**10. / 11. Seek Next Station – Down / Up**  
Touch to tune to the next strong station at a lower / higher frequency. Touch any icon to stop seeking.

## DVD PLAYER OPERATIONS

- 1, Touch the [DVD] icon to access to DVD Mode if disc inside.
- 2, The unit will be switched to DVD Mode automatically when inserting the disc.
- 3, The unit will switch to RADIO Mode automatically if disc ejected.



1. Current Source Indicator  
Display the source currently playing, touch to return the main menu.
2. Mute  
Touch to switch off the sound; touch it again to resume to the previous volume level.
3. Stop  
When DVD/VCD/CD disc playback, touch the icon once to stop the playback, touch the [Play/Pause] icon to resume the playback again. Touch the icon twice to stop the playback, touch the [Play/Pause] icon to start the playback from the beginning of disc.  
When MP3 disc playback, touch the icon to stop the playback, touch the [Play/Pause] icon to start the playback from the beginning of track.

4. Play/Pause  
Touch to pause or resume the playback.

5. / 8. Fast Forward / Fast Reverse  
Touch to fast forward / fast reverse at 2x speed. Each touch changes speed from 2x to 4x to 8x to 16x to 32x then back to normal play. Touch the [PLAY/PAUSE] icon to resume to normal playback.

6. Next / 7. Previous  
Touch to go to the next / pervious chapter, track or song.

9. Switch  
Touch to access the 2<sup>nd</sup> page of DVD menu.



## DIGITAL SETUP



### OP MODE

Following options are available for the OP MODE  
LINE OUT      RF REMOD

### DYNAMIC RANGE

Following options are available for the DYNAMIC RANGE:  
FULL      6 / 8      4 / 8      2 / 8      OFF

### DUAL MONO

Following options are available for the DUAL MONO:  
STEREO      MONO L      MONO R      MIX MONO



## VIDEO SETUP



### BRIGHTNESS

Following options are available for the BRIGHTNESS:  
0 2 4 6 8 10 12

### CONTRAST

Following options are available for the CONTRAST:  
0 2 4 6 8 10 12

### HUE

Following options are available for the HUE:  
-6 -4 -2 0 +2 +4 +6

### SATURATION

Following options are available for the SATURATION:  
0 2 4 6 8 10 12

### SHARPNESS

Following options are available for the SHARPNESS:  
0 2 4 6 8

## SPEAKER SETUP



### DOWNMIX

Following options are available for the DOWNMIX:  
LT / RT Stereo VSS

### FRONT

Following options are available for the FRONT:  
LARGE SMALL

### 1. Capture Image

Touch to capture the current playing image and store into memory for background or screen saver.

### 3. Display

Touch to display the current playback information on the screen.

### 4. Repeat

Touch to repeat as CHAPTER-TITLE-ALL-REPEAT OFF when DVD playback.  
Touch to repeat as TRACK-ALL-REPEAT OFF when VCD/CD playback.  
Touch to repeat as REPEAT ONE-REPEAT ALL-REPEAT OFF when MP3 playback.

### 5. Direction Arrows Keyboard

Touch to display the [Direction Arrows Keyboard] on the left side of screen. Touch repeatedly to move the [Direction Arrows Keyboard] icons on the right side or left side of screen.



### 6. Menu

Touch to go to the menu of disc when playing DVD disc.

### 7. Switch

Touch to access the 1<sup>st</sup> page of DVD menu.

## 2. Setup

Touch to access the DVD SETUP menu.

Touch the [ < ] / [ > ] icons to switch the main menus as following:

### SYSTEM – LANGUAGE – VIDEO – SPEAKER – DIGITAL

Touch the [ ^ ] / [ v ] icons to access the submenus from main menus.

Touch the [ ^ ] icon on the top submenu or [ v ] icon on the bottom of submenu to exit the submenus to main menus.

Touch the [ ^ ] / [ v ] icons to select the submenus as your need.

Touch the [ > ] or [ ENTER ] icons to access the items of submenus.

Touch the [ < ] icon to exit the items of submenus.

Touch the [ v ] / [ ^ ] icons to select the item you want to change.

Touch the [ OK ] icon to confirm the item you have selected and exit to the submenus.

Touch the [ OK ] icon on the submenu EXIT SETUP to exit the DVD SETUP Menu and save all settings.

## General Setup Page

### SYSTEM SETUP



#### TV SYSTEM

Following options are available for the TV Display:  
NTSC PAL AUTO

#### POWER RESUME

Following options are available for the Power Resume:  
ON OFF

#### TV TYPE

Following options are available for the TV Display:  
4 : 3 PS 4 : 3 LB 16 : 9

#### PASSWORD

Setup the password for Parental Ratings change. The default password is 0000.

## RATING

Following options are available for the Parental Ratings:

1 KID SAFE	2 G	3 PG	4 PG 13
5 PG - R	6 R	7 NC - 17	8 ADULT

The Parental Ratings could be changed after the correct password input.

## DEFAULT

The unit will restore all default settings by selecting this option.

### LANGUAGE SETUP



#### OSD LANGUAGE

Following options are available for the OSD LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	

#### AUDIO LANGUAGE

Following options are available for the AUDIO LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	

#### SUBTITLE LANGUAGE

Following options are available for the SUBTITLE LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	

#### MENU LANGUAGE

Following options are available for the MENU LANGUAGE:

ENGLISH	GERMAN	SPANISH	FRENCH	PORTUGUESE
ITALIAN	RUSSIAN	DUTCH	SWEDISH	KOREAN
DANISH	NORWEGIAN	POLISH	HUNGARIAN	