naxa

NCD-702

Instruction Manual

NCD-702

7" TFT

naxa

7" Touch Screen LCD Display Motorized Slide Down
Full Detachable PLL Electronic Tuning Stereo AM/FM Radio
Multimedia Player With Aux-in Jack And Bluetooth

Remark: Any information subject to change without further notice

PRECAUTION

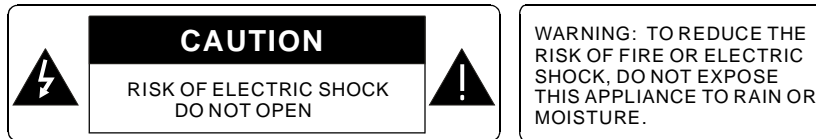|	CAUTION		WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
⚡	RISK OF ELECTRIC SHOCK DO NOT OPEN	⚠	

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightening flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CLASS 1 LASER PRODUCT

Laser product symbol: located on the rear panel of the unit, indicate this player is a class laser product, only use weak laser and no hazardous radiation outside of the unit.

1. Read through this instruction manual before installation and use.
2. Do not touch the power plug with wet hand.
3. Switch off the main power when the unit is not in use. (Disconnect the power plug from the power outlet when you do not intend to use the unit for a prolonged period of time.) Before moving the unit, remove the disc from the unit/ tray first.
4. Do not open the cover or touch any of the components exposed out of the unit, only for qualified technicians.
5. Do not expose the unit under direct sunlight or nearby objects that radiate heat to avoid damage the unit.
6. Do not place the unit in moist and humid conditions, which effect the pick-up of the unit lead to out of work.
7. Place the unit on a flat surface and ventilative condition. Please ensure the ventilation holes are not covered to avoid overheating and malfunction.
8. Clear the panel and case with soft dry cloth only, do not apply any kind of thinner, alcohol or sprays.
9. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus .

Contents

1. Before Operation

1.1 Glossary

PBC (playback control)
It is a kind of signal(menu) recorded in the disc with SVCD or VCD2.0
format used for the playback control. For the discs contained PBC, It can
playback interactive software with the menu displayed on monitor screen.
If the disc contain still images, it can playback high definition of still image.

Title
Generally, the title is the important part of DVD disc. for example, the
theme part of movie is title 1, the part described how to make movie is title
2, the cast is title 3, etc. Every title contain a serial number that is easy to
look up.

Chapter
A title can be divided into several blocks, so that every block can be operated
as a unit, the unit is called chapter. The chapter contain a unit at least.

Track
It is the biggest component of VCD. Generally, every song of karaoke disc
is a track.

1.2 Precautions

Safety
1. Power Source: The unit should be connected to power supply only of
   the type described in the operating instructions or as marked on the unit.
2. The unit is designed for negative terminal of the battery which is
   connected to the vehicle metal. Please confirm it before installation.
3. Do not allow the speaker wires to be shorted together when the unit is
   switched on. Otherwise it may overload or burn out the power amplifier.
4. Do not install the detachable panel before connecting the wire.

Environment
1. Do not use this unit when water and moisture is near it.
2. If moisture forms inside the Lens, it may not operate properly. To correct
   this problem, wait about one hour for the moisture to evaporate.
3. If the car interior is extremely hot, do not use the player until the car has
   been driven for a while to cool off the interior.

7. Specification

General Specification

Power Supply Requirement...DC 12V
Maximum Power Output.............25W x 4 (measured at DC 14.4 V)
Dimensions(w x h x d)...178 x 50 x 160mm

DVD Deck Specification

Format......................................DVD/VCD/JPEG/MP4/MP3/WMA/CD
Video System....................NTSC/PAL/PAL-M/PAL-N/AUTO(optional)
Audio System..24 bit/96KHz
Loading System.. Auto Loading
Mounting Angle..0 to +/-30

Video Specification

Video Type..16:9 and 4:3
Video Output level.....................................Composite:1.0 ± 0.2Vp-p
Load impedance: 75 ohms
Horizontal Resolution..500

Audio Specification

Audio Output(Analog audio)..$2.0^{+0}_{-1.0}$Vrms
Frequency Response............................20Hz ~ 20KHz(at 1KHz 0 dB)
S/N Ratio(Audio)...$\geq$90dB(at 1KHz 0 dB)
Separation..50dB

Radio Specification

FM Section
Frequency range...87.5MHz - 107.9MHz
Usable sensitivity...3uV
I.F Frequency...10.7MHz

AM Section
Frequency...530KHz - 1710KHz

1.3 Maintenance and Cleaning of Discs

Disc Maintenance

1. To keep the disc clean, handle the disc by its edge, do not touch the disc surface of the play side.
2. Do not stick paper or tape on the disc. If there is glue (or analog) on the disc surface, must wipe it up before using.
3. Do not expose the disc to direct sunlight, or nearby heat sources such as caliduct, or leave it in a car parked in direct sunlight where there can be a considerable rise in temperature.
4. Put the disc inside disc case to keep temperature after finishing playback.

Disc Cleaning

1. Before playing, wipe the disc with a clean lint. wipe the disc outwards from the disc center.
2. Do not use petrel, thinner. commercially cleaner or anti-static spray can damage the unit.

Fig.1   Fig.2   Fig.3
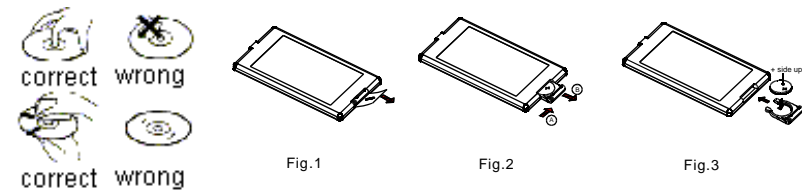
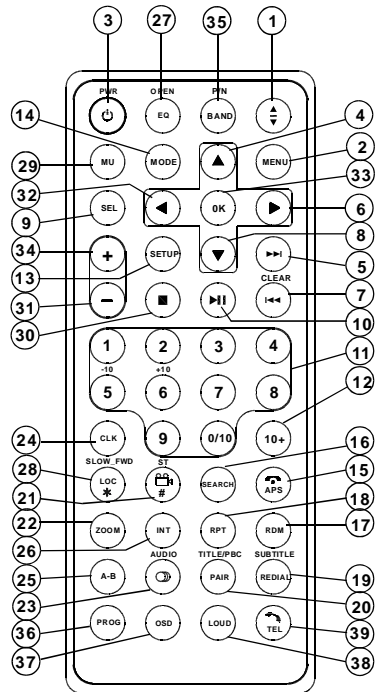### 1.4 Battery Information of the Remote Control

Replace Battery in the Remote Control:
1. Before using the remote control for the first time, pull the insulating sheet out of the remote control as the direction indicated by the arrow.(see fig.1)
2. Press the movable block hold as the direction indicated by the A arrow (See fig.2), then pull the battery holder out of the remote control as the direction indicated by the B arrow(see fig.2).
3. Replace the old battery by a new battery with (+) polarity side upward. (See fig.3).
4. Insert the battery holder to the original position in remote control. (See fig.3).

Note about the Battery of the Remote Control:
1. Lithium battery: CR 2025 3V.
2. Battery Life: 6 months with normal use in normal room temperature.
3. Improper use of battery may cause overheating or explosion, so that Result in injury or fire .
4. Battery leakage may cause damage to the remote control.
5. Do not short the battery.
6. Do not throw the battery into the fire.
7. To avoid the risk of accident, keep the battery out of reach of children.

1.5 The Remote Control Description

1. TILT BUTTON

2. MENU BUTTON

3. POWER BUTTON

4. ^ BUTTON

5. >>| BUTTON

6. > BUTTON

7. |<</CLEAR BUTTON

8. v BUTTON

9. SEL BUTTON

10. PLAY/PAUSE BUTTON

11. NUMBER(0~10,+10 -10) BUTTONS

12. 10+ BUTTON

13. SETUP BUTTON

14. MODE BUTTON

15. APS/HANG UP BUTTON

16. SEARCH BUTTON

17. RDM BUTTON

18. RPT BUTTON

19. SUBTITLE/REDIAL BUTTON

20. TITLE/PBC/PAIR BUTTON

21. ANGLE/ST/# BUTTON

22. ZOOM BUTTON

23. AUDIO BUTTON

24. CLK BUTTON

25. A-B BUTTON

26. INT BUTTON

27. EQ/OPEN BUTTON

28. LOC/SLOW-FWD/* BUTTON

29. MUTE BUTTON

30. STOP BUTTON

31. VOLUME- BUTTON

32. < BUTTON

33. OK BUTTON

34. VOLUME+ BUTTON

35. BAND AND P/N BUTTON

36. PROG BUTTON

37. OSD BUTTON

38. LOUD BUTTON

39. TEL BUTTON

6. The Trouble Shooting

Please read the user's manual carefully before using the DVD player. If you have any troubles in using this player, try to solve the problems by the suggestions mentioned below. If you can not remove the trouble after using all the suggestions, please contact the company or the technical service center authorized by us. For the sake of your safety, please do not open the cover and repair the player by yourself, if that, it may cause electric shock.

NO PICTURE, SOUND AND INDICATION
*   Ensure that the power switch is on.
*   Ensure that the wall inlet is ok.
*   Ensure that the power cord is not damaged or the fuse is not blown.
*   Ensure that the power plug is connected to the inlet tightly.

NO SOUND BUT HAVE PICTURE
*   Ensure that the player's audio output has a good connection with monitor's audio input.
*   Check whether the audio connector is damaged.
*   Check whether you have turned down the volume.
*   Ensure that you have set the right AUDIO setup of the player.
*   Ensure that the audio is not under mute.

NO PICTURE BUT HAVE SOUND
*   Ensure that the player's video output has a good connection with monitor's video input.
*   Ensure that you have turned your monitor to the AV input channel connecting to your player.
*   Check whether the video connector is damaged.
*   Ensure that you have set the right VIDEO settings of the player.

BLACK AND WHITE PICTURE OR SCREEN ROLLING
*   Ensure that you have set the right TV SYSTEM (e.g. PAL, NTSC) setting.

FLAWS OF PICTURE OR SOUND
*   Check whether the setting of AUDIO is right.
*   Check whether the disc is scratched or stained.
*   Check whether the AV connector and the output terminal is stained.
*   Check whether there is condensation inside the Lens. If so, leave the player off for an hour or so, then try again.
*   Check whether the installation angle is less than 30°.

DISPLAY NO DISC OR BAD DISC
*   Ensure that you have put the disc on the tray.
*   Check whether the disc is put in the reverse side.
*   Check whether the disc is distorted.
*   Check whether the disc is stained or scratched badly.
*   Ensure that the disc format is compatible to the player.
*   Ensure that the temperature inside the car is not too high. If so, cool off till the ambient temperature returns to normal.
*   Replace another disc to insert it into the disc compartment.

REMOTE CONTROL IS INSENSITIVE OR DOES NOT WORK
*   Check the batteries of remote control and make sure that they are to be powerful and good conductivity.
*   Direct the remote control to the IR sensor of the player.
*   Check whether there are some obstacles between the remote control and IR sensor.

SOME FUNCTION BUTTONS DO NOT WORK
*   Turn off the power, then turn on again.
*   Reset the unit to zero, then turn on again.
*   Remove the front panel from the unit, then install it again and then turn on again.

THE RADIO DOES NOT WORK
*   Check whether the antenna cable is connected firmly. Or manually tune for a station.

4. In the connection status: the audio of mobile phone transfers to the car audio system whenever a dialling takes place or receiving a call.

5. Dialling when in connection status

5.1 Dial with the mobile phone directly.

5.2 Dial with remote control with the following procedures:

(1) Input telephone number with number buttons 0-9

   * Short press CLEAR button to cancel the wrongly input number if necessary

(2) Short press TEL to execute the dialling.

5.3 To redial the last phone number dialled

   Short press REDIAL button or tap the icon, It will dial the last phone number.

6. Accept/Reject/End Call

6.1 During ringing, short press TEL button to accept the call

6.2 During ringing, short press HANG UP button to reject the call

6.3 During talking, short press HANG UP button to end the call

   Note: During ringing, the phone number appears.

7. To transfer the audio of a file played by Mobile Phone to the Car Audio Player

In the connection status between the Bluetooth devices of the Car Audio Player and a Mobile Phone, if the mobile phone can play audio or video files and support A2DP, when the Mobile Phone plays an audio or video file(For some Mobile Phones, you must select Play by BT firstly), the audio of the playing file will be transferred to the Car Audio Player.

In A2DP mode, if the Bluetooth device of the Mobile Phone support AVRCP, the functions of the >>|, |<< , PLAY/PAUSE , EJECT, MUTE, EQ, LOUD, VOL and SEL buttons are the same as one in media mode(no fast forward/backward functions for the >>|/|<< buttons). The other buttons available in media mode are not available.

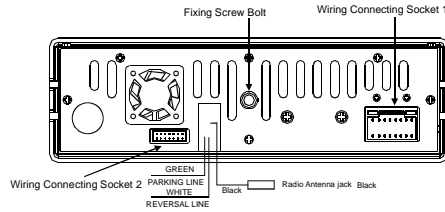## 1.6 The Locations and Names of Controls on or in the unit
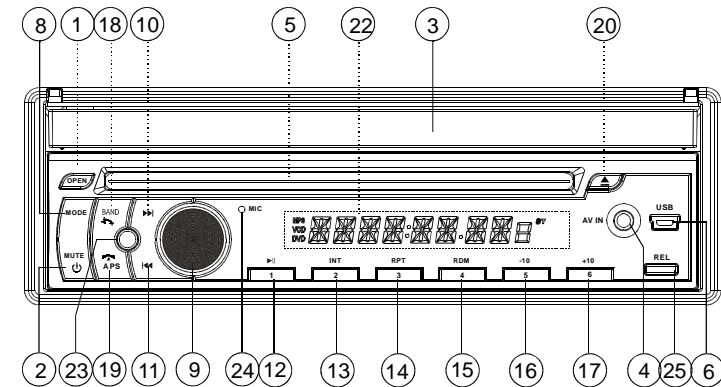
The Front Panel
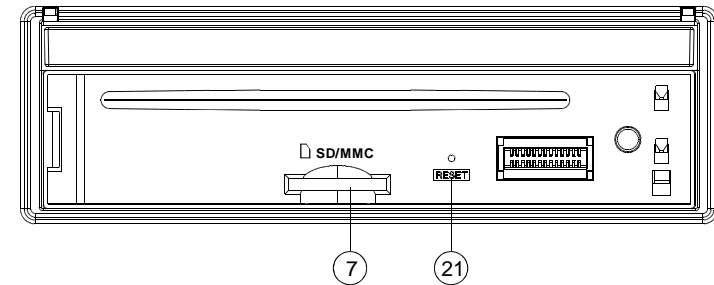
The Front Facet after removing the front panel

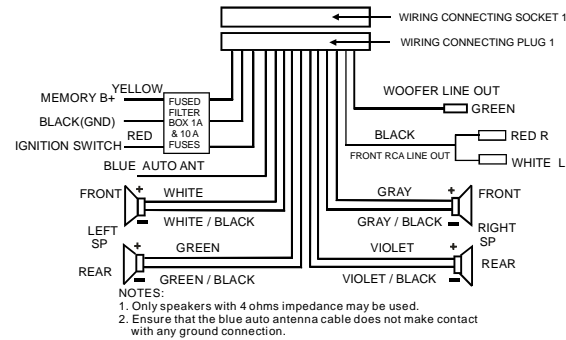|	
1. OPEN button	13. INT/2 button
2. POWER/MUTE button	14. RPT/3 button
3. Monitor	15. RDM/4 button
4. AV IN socket	16. - 10 / 5 button
5. Disc Slot	17. + 10 / 6 button
6. USB Jack	18. BAND/TEL button
7. SD/MMC Card Slot	19. APS/HANG UP button
8. MODE button	20. EJECT button
9. VOL knob	21. RESET button
10. >>| button	22. Small LCD Screen
11. |<< button	23. IR Remote Sensor
12. PLAY/PAUSE/1 button	24. Microphone
	25. REL button

1.7 Wires Connection Description

The Description of the Wires Connection

Fixing Screw Bolt

Wiring Connecting Socket 1

Wiring Connecting Socket 2

GREEN
PARKING LINE
WHITE
REVERSAL LINE

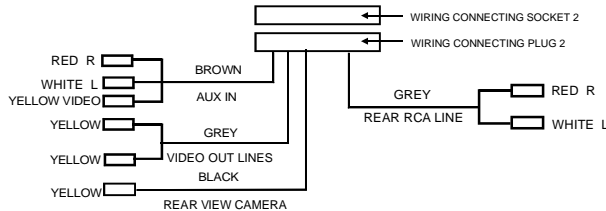Black — Radio Antenna jack Black

Note: Use the clip end of a Ground Line provided by manufacturer to connect the Fixing Screw Bolt, use another end of the Ground Line to connect the negative pole of the power source. Otherwise, the video on screen maybe flashes.

The Description of the Wires Connection of the Wiring Connecting Socket 1

WIRING CONNECTING SOCKET 1
WIRING CONNECTING PLUG 1

MEMORY B+ — YELLOW
BLACK(GND)
IGNITION SWITCH — RED
FUSED FILTER BOX 1A & 10 A FUSES
BLUE AUTO ANT

WOOFER LINE OUT
GREEN
BLACK
FRONT RCA LINE OUT
RED R
WHITE L

FRONT + WHITE
LEFT SP − WHITE / BLACK
+ GREEN
REAR − GREEN / BLACK

GRAY + FRONT
GRAY / BLACK − RIGHT SP
VIOLET +
VIOLET / BLACK REAR

NOTES:
1. Only speakers with 4 ohms impedance may be used.
2. Ensure that the blue auto antenna cable does not make contact with any ground connection.

The Description of the Wires Connection of the Wiring Connecting Socket 2

WIRING CONNECTING SOCKET 2
WIRING CONNECTING PLUG 2

RED R
WHITE L
YELLOW VIDEO
BROWN
AUX IN
YELLOW
GREY
YELLOW
VIDEO OUT LINES
BLACK
YELLOW
REAR VIEW CAMERA

GREY
REAR RCA LINE
RED R
WHITE L

Description of Connecting the Parking Brake Line to the Parking Brake System Built in the Car

Parking brake

Parking brake line(Green)

Parking brake switch (inside the car)

To metallic body or chassis of the car
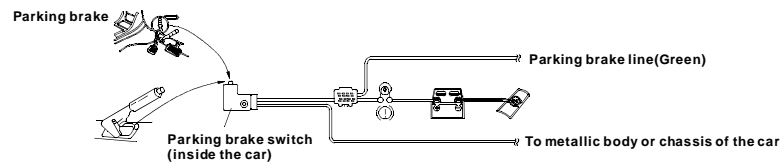
NOTE: after connecting the Parking Line, the video on the small monitor of the front panel will be display only after braking the car.

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5. BLUE TOOTH HANDFREE SYSTEM

1. Enter Bluetooth mode
   When you use MODE button or Mode Menu to enter Bluetooth mode, it will display Bluetooth interface as right.

   Bluetooth interface

   In Bluetooth interface, the icons descriptions are as follows:

   : Tapping it can pop up AUDIO & VIDEO SETUP interface as one in page 10.

   : Tapping it can transfer audio between the Car Audio System and mobile phone.

   : Tapping it can exit to Mode Menu.

   : Same as CLEAR button in Remote Control.

   : Same as + button in a mobile phone.

   The other icons are same as ones in the front panel and Remote Control.

2. Pairing and connection

   1) Turn on the Bluetooth mode of the mobile phone;

   2) Select the item of Finding the Bluetooth Device and enter it. After finishing the finding, it will show the name of the Bluetooth Device if finding a Bluetooth Device. Select it and enter it, then it will show a interface that ask you to input a password, input the password 0000 and then enter it. Then it will tell you pair OK.

   3) For some mobile phones, they can automatically connect with the BT device of the car audio system after pairing is ok; for some mobile phones, they need to select the paired BT device and press the CONNECTION button . When connection is ok, the LCD of the car audio system will show LINK OK.

   * when pairing is failed, long press the PAIR button on the remote control to enter pairing mode, then the LCD will display PAIR START, then pair and connect with mobile phone again.

3. Use the mobile phone to do connection or disconnection

   In the connection status, find the paired and connected Bluetooth Device, then press the disconnection button to do disconnection.

   In the disconnection status, find the paired and disconnected Bluetooth Device, then press the connection button to do connection.

*   The Region Code

Q: Not begin to playback but to display REGION ERROR after inserting disc into disc compartment. Why ?

A: Because the DVD player and disc has respective region code. If the region codes of them are not match with each other, the DVD player can not play the disc.
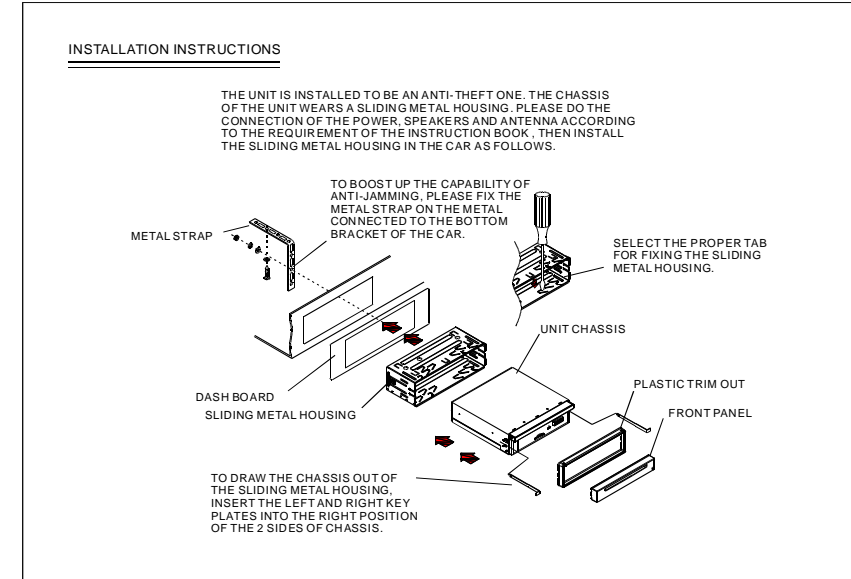
Appendix: The region code of DVD:

The Motion Picture Association of America (MPAA) divided the world into 6 regions, and named every region a code, namely region code. The region codes and the countries or areas represented by the region codes as follows:

Region 1: America, Canada, East-Pacific Inlands;
Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
Region 3: South-east Asian countries include Taiwan, Hong Kong, South Korea, Thailand, indonesia, etc.;
Region 4: Australia, New Zealand, Central South America, South Pacific Inlands;
Region 5: Russia, Mongolia, Indian Peninsula, Middle Asia, East Europe, North Korea, North Africa, North-west Asia etc.;
Region 6: China mainland.

Basically, when a DVD movie disc for the version of region 6 was decided not to issue, we need to purchase another DVD player that can play the DVD movie disc for the version of non-region 6. In order to view this disc, viewer who does not have the non-region 6 DVD player facilities will have to spend extra sum of money to buy it. The problems caused from the area code inconsistency between the disc and the DVD player has pushed for the production of Unlock-Version DVD player facilities, and some DVD disc sets allow user to modify the area codes for a limited number of times. But note that only the discs produced by the 8 biggest filmmaking companies of America restrict so, they are not one of original DVD format. That is to say, the DVD movie discs not produced by the 8 biggest filmmaking companies of America were not restricted by the rule of region code. Generally, they are called FreeRegionCode discs or Full Region discs. The 8 biggest filmmaking companies of America are as follows:

1. WarnerBros;
2. Columbia;
3. 20thCenturyFOX;
4. Paramount;
5. Universal;
6. UA(UnitedArtist);
7. MGM(MetroDogwynMayer);
8. WaltDisney

1.8 UNIT INSTALLATION

INSTALLATION INSTRUCTIONS

THE UNIT IS INSTALLED TO BE AN ANTI-THEFT ONE. THE CHASSIS OF THE UNIT WEARS A SLIDING METAL HOUSING. PLEASE DO THE CONNECTION OF THE POWER, SPEAKERS AND ANTENNA ACCORDING TO THE REQUIREMENT OF THE INSTRUCTION BOOK, THEN INSTALL THE SLIDING METAL HOUSING IN THE CAR AS FOLLOWS.

TO BOOST UP THE CAPABILITY OF ANTI-JAMMING, PLEASE FIX THE METAL STRAP ON THE METAL CONNECTED TO THE BOTTOM BRACKET OF THE CAR.

METAL STRAP

SELECT THE PROPER TAB FOR FIXING THE SLIDING METAL HOUSING.

UNIT CHASSIS

DASH BOARD

SLIDING METAL HOUSING

PLASTIC TRIM OUT

FRONT PANEL

TO DRAW THE CHASSIS OUT OF THE SLIDING METAL HOUSING, INSERT THE LEFT AND RIGHT KEY PLATES INTO THE RIGHT POSITION OF THE 2 SIDES OF CHASSIS.

2. Common Operation

1. To turn on/off the unit
    In power off mode, short press the POWER button to turn on the unit.
    In power on mode, long press the POWER button on the front panel or short
    press the POWER button on the remote control to turn off the unit.

2. To slide the monitor of the Car Audio System out of/into the chassis
    Shortly pressing the OPEN button on the front panel or long pressing the OPEN
    button on the remote control can slide the monitor of the Car Audio System out
    of the chassis or slide it into the chassis.

3. To select function mode
    Press the MODE button to select RADIO, DISC
    (After inserting a disc), USB(After inserting a USB
    storage), CARD(After inserting a card) , AUX or
    BLUETOOTH mode.

    During playback, tapping the [icon] icon after popping
    up Keyboard interface can pop up Mode Menu as
    right. then tap one icon in it to select your desired
    mode.

Mode Menu

4. To adjust sound level
    Rotate the VOL knob on the front panel or press or hold the + or - button on the
    remote control to directly adjust the volume level.

5. To mute sound
    Press the MUTE button on the remote control to turn on/off MUTE mode.
    pressing the POWER button on the front panel shortly also can turn on/off MUTE
    mode.

6. To display clock time
    Press the CLK button to display clock time on the small monitor of the front panel.
    After sliding the monitor into the chassis, pressing the CLK button can display
    clock time on the small LCD.

7. To select a desired EQ mode
    Press the EQ button on the remote control to select one of the preset music
    equalizer curves: POP, ROCK, CLAS, FLAT. The sound effect will be changed.

8. To turn on/off LOUD mode
    Press the LOUD button to turn on/off LOUD mode.
    When turning on LOUD mode, it will enhance bass level immediately when bass
    is not enough.

9. To reset the player
    When the monitor or the small LCD display wrongly or some buttons are not
    available or sound is distorted, press the REL button to detach the front panel from
    the main unit, then remove the front panel and press the RESET button to
    rehabilitate the distorted program to zero.

HUE
It is for adjusting the hue of the video output.
SATURATION
It is for adjusting the saturation of the video output.
SHARPNESS
It is for adjusting the sharpness of the video output.

4.24.5 SPEAKER SETUP

DOWNMIX
It is for selecting your desired sound effect when there is not central speaker
and sub-woofer. There are 3 mode: LT/RT, STEREO, VSS.
LT/RT: When playing a disc with PRO LOGIC Dolby stereo effect, choose the
    item, so it will output audio signal with vivid theatre effect.
STEREO: If you choose the item, when outputting audio signal with 5.1 channels,
    it will output the left and right channels of signal ; when outputting audio signal
    with 2 channels, it will output the common 2 channels of stereo signal.
VSS: If you choose the item, when playing a disc recorded with 5.1 channels,
    the main channel speakers can output audio signal with VSS effect.

4.24.6 DIGITAL SETUP
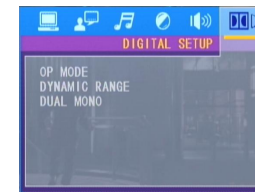
OP MODE
It is for selecting audio output mode
LINE OUT: It can linearly compress the audio signal. So the volume level is lower.
                You should select the item at night.
RF REMOD: It can make the volume level higher. You should select it at daylight.
**DYNAMIC RANGE**
After selecting the compression mode of LINE OUT, set the item, so you can
adjust the linear compression ratio. If you set it to be FULL, the Peak-to-Peak
value of the audio signal is the minimum; if you set it to be OFF, the Peak-to-
Peak value is the maximum.
DUAL MONO
It is for selecting a desired audio output mode for the left and right ways of signal.
It is mainly for Karaoke of Ac3. There are 4 modes in all as follows:
STEREO, MONO L, MONO R, MIX MONO.

4.24.2 LANGUAGE SETUP
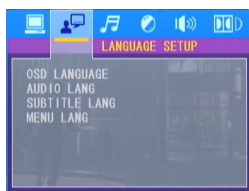
OSD LANGUAGE
This item is for selecting the language of the SYSTEM MENU and all operating prompt interface displayed during playback.
AUDIO LANG
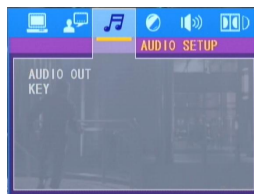This item is for selecting a audio language.
SUBTITLE LANG
This item is for selecting a subtitle language.
MENU LANG
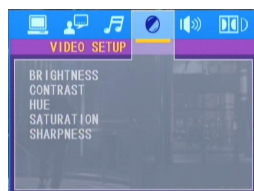This item is for selecting a disc menu language.

4.24.3 AUDIO SETUP

AUDIO OUT
there is only ANALOG mode, i.e. SPDIF/OFF, not optional.
KEY
It is for selecting your desired basic music tone(from low to high).

4.24.4 VIDEO SETUP

BRIGHTNESS
It is for adjusting the brightness of the video output.
CONTRAST
It is for adjusting the contrast of the video output.

10.To do general setup
To do general setup, first pop up Mode Menu as in item 3, then tap the ⚙ icon in the Mode Menu to pop up GENERAL SETUP interface as right.
In the interface, select one of CLOCK SET, RDS MODE , OSD LANG, RADIO FREQ and SENSE SET on the left side by tapping them, then set them by tapping some icons on the right side accordingly.
 * SENSE SET is used to set the sensitivity of stopping auto searching for an available radio station. When you tap it, it will ask you to input a password. The password is 19, after inputting it, you can set the item.

GENERAL SETUP

11.To do calibration
To pop up Calibration interface during media playback, first press the STOP button , then press the ZOOM button, finally press the ^ and v buttons in turn.
In the interface, you can have calibration by accurately tapping the cross cursor.

3. Radio Operation

1. Enter RADIO mode
When you use MODE button or Mode Menu to enter RADIO mode, it will display RADIO interface as right.
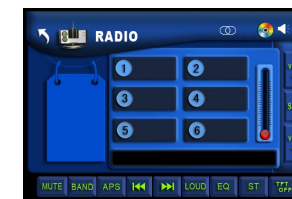
In RADIO interface, tapping the icon can enter Mode Menu; tapping the icon can turn on or off TFT display; tapping the icon can pop up AUDIO & VIDEO SETUP interface as right; the other icons are same as ones in the unit panel or in the Remote Control.

RADIO interface

In the AUDIO & VIDEO SETUP interface, you can adjust VOLUME, TREBLE, BASS, BALANCE, FADER, BRIGHT-NESS, CONTRAST, COLOR, HUE; you can also turn on or off DBAS, MBP, LOUD; you can still select your desired transparency mode(by STD) and EQ mode(by EQ); tapping the icon can return back to the previous status.

AUDIO & VIDEO SETUP interface

2. BAND BUTTON
In RADIO mode, press the BAND button on the remote controller or on the front panel to select your desired radio band of FM1, FM2, FM3, AM1 and AM2, and the word means which band is selected will be displayed on the small monitor of the front panel.
3. TUNE/SEEK UP/DOWN BUTTONS
In RADIO mode:
 1) Long press the >>|/ |<< button to automatically search up/down for a available station from the current frequency.
 2) Briefly press the >>| / |<< button to manually search up or down with step by step for your desired station from the current frequency.
4. APS BUTTON
In RADIO mode:
 1) When long pressing the APS button, the radio searches from the lowest frequency and checks the signal strength level until 1 cycle search is finished. And then the 6 strongest stations are preset to the corresponding preset number memory bank. The AS operation is implemented in the each bank of the selected band. When the AS operation is finished, it will scan each preset station for 5 seconds in FM or AM band from M1 as briefly pressing APS button. After

finishing a circle of scanning , it will resume broadcasting on the M1.(It can store 3x6 stations for FM and 2x6 stations for AM in all)

2) When briefly pressing the APS button, the radio will scan each preset station for 5 seconds in FM or AM band from M1.

After finishing a circle of scanning, it will resume broadcasting on the M1.

NOTE: In FM band, FM1,FM2,FM3 is checked one at a time.
In AM band, AM1, AM2 is checked one at a time.

5. PRESET STATION [1-6] BUTTONS

In RADIO mode:

1) To memorize the current frequency on the current band, long press any one of the six preset buttons (1-6) .

2) To recall the preset memory on the current band, press one of the preset buttons [1-6] .

6. STEREO/MONO BUTTON

Press the ST button on the remote controller to select the STEREO or MONO sound mode for FM band.

7. LOC BUTTON

1) In RADIO mode, when the signal of the distance radio station are very weak and the receiving effect is bad during tuning, check whether there is the word LOC on LCD. If there is the word LOC on LCD, press this button to turn off the LOC function, then tune again for the distance radio station;

2) In RADIO mode, when the signal of the local radio station are too strong to lead that the interference to the receiving effect during tuning, press this button to turn on the LOC function to display the word LOC on LCD, then tune again for the local radio station.
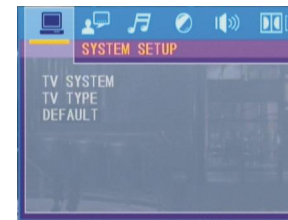
4. Disc and USB Operation

4.1 Load/unload disc or USB

To play files in a disc, insert the disc into the disc slot, then it will automatically play .

To unload the disc in the disc slot, press the EJECT button to eject disc in the disc slot and then you can remove the disc.

For the DVD System Menu, there are 6 setup pages in all. They display as follows:

4.24.1 SYSTEM SETUP

TV SYSTEM

This product supports output of various TV system.

If your TV set has only NTSC or PAL system, the screen will blink and become colorless when a wrong TV system is selected. In this case, press the N/P button to switch the right TV system to match the TV color system.

TV TYPE

The setup item is for matching TV screen size.

4:3 PS: Choose the item when connecting a TV set with 4:3 screen. When playing the pictures with 16:9 size, the left and right parts of the video will be cut out, and display in full screen.

4:3 LB: Choose the item when connecting a TV set with 4:3 screen. When playing the pictures with 16:9 size, the top and bottom parts of the TV screen will be turned into a black square respectively.

16:9: Choose the item when connecting a TV set with 16:9 wide screen.

DEFAULT

This item is for making all setup items change back to original status.

3. During JPEG playback, press one of the >/</^/v buttons to change the angle of viewing picture that is displaying as follows:
   >: 90 deg cw; <: 90deg ccw; ^:UP<-->DOWN; v: LEFT<-->RIGHT
   During JPEG playback, press the PROG button to change the mode of refresh picture.
   During JPEG playback, press the STOP button to stop playing and return to the root menu.

* During JPEG playback, the following buttons are not available: SLOW-FWD, SUBTITLE, TITLE, ANGLE, AUDIO, RDM, INT and A-B.
* In JPEG mode,the other operations are same as ones in MP3/WMA mode.

4.22 Playback MP4 files

1. The root menu is displayed on TV when beginning to switch on Mp4 mode, then it will automatically play the first file.
   During playback, press the STOP button to stop playing and return to the root menu.
2. When displaying the root menu, press the direction buttons to select your desired FOLDER ,file or file sort icon, then press the OK or PLAY button to open the FOLDER, open the files of the file sort icon or play the selected file.
   When displaying the root menu, you can also use the number buttons to select the serial number of the file and play the file.

* The ANGLE, PROG, RDM, INT and TITLE/PBC button are not valid.
* The other functions are same as ones in DVD mode; but the RPT function is same as one in MP3/WMA mode.

4.23 ESP and ID3 Function

There is ESP function for all formats of discs.

In MP3/WMA mode, during playback, the information of the file name, folder name, song s title, artist and album will be scrolling on the LCD display. As long as the current playing MP3 music contains relevant ID3 tag information in version 1.0/2.0 format, the 3 items underlined above will be scrolling on the LCD display; otherwise, they will not.

4.24 The DVD System Menu Setup Operation

1. Press the SETUP button on the remote control to access the DVD System Menu on the monitor.
2. There are 6 setup pages in all for the System Menu. Press the > or < button to select an desired setup page.
3. Press the ^ or v button to select an setup item in the selected setup page.
4. Press the > button to enter the setup item. Then press the v or ^ button to select a desired mode of the setup item, finally press the OK button to confirm it.

* Press the < button to return to the upper level.
* Press the SETUP button again or use the direction buttons to highlight the item of the EXIT SETUP and then press the OK button to exit the System Menu.

To play files in a USB or Card, insert the USB or Card into the USB jack or Card Slot(firstly detach the front panel and remove it), then it will automatically play.

To unload the USB in the USB jack, press the STOP button twice and then remove the USB.

To unload the Card in the Card Slot, press the STOP button twice and then push the card firstly and pull it out of the Card Slot.

* It supports to 1.1/2.0 version of USB and 8 GB SD CARD.

Root interface for MP3/WMA/MP4/JPEG

Remark: If the disc, USB or card includes folder(for MP3/WMA/MP4/JPEG files), after loading, it will display a root as right. On the bottom side of the root, the 🎵 icon is for audio files; the 🖼 icon is for image files; the 📽 icon is for Video files. If files of these 3 file sort does not exist, you can not move cursor onto the file sort icon.

Keyboard interface-1

Remark: During playback, tapping the KEY icon in the root (for MP3/WMA/MP4/JPEG) or any place on the screen (for CD/VCD/DVD/MP4/JPEG) can pop up the keyboard interface as right.

🔄 : Tapping it can pop up Mode Menu.
▲ ▼ ◀ ▶ : Same as the corresponding buttons on the Remote Control.
OK : Same as the corresponding button on the Remote Control.
▶❚ : Same as the corresponding button on the Remote Control or on the front panel.
MENU : Same as the TITLE button on the Remote Control (available only for DVD).
■ : Tapping it can stop playback and pop up the root.(exist only for MP4/JPEG)
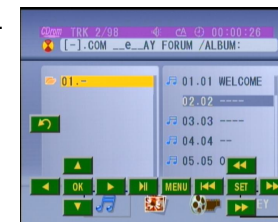◀◀ ▶▶ : Tapping one of them can select next or previous chapter/track.
◀◀ ▶▶ : Tapping one of them can switch on between the speed levels of fast backward or forward.
SET : Tapping it can pop up the AUDIO interface of the SET Menu as right. In the interface, you can adjust the levels of VOLUME, BASS, TREBLE, BALANCE and FADER; can turn on or off LOUD, DBAS and MBP; can select your desired EQ mode. Tapping TFT VIDEO icon can pop up the TFT VIDEO interface of the SET Menu as right. In the interface, you can adjust the levels of BRIGHTNESS, CONTRAST, COLOR and HUE; you can also adjust Transparency by tapping USER, STDY , BRIG, SOFT and SHAR.
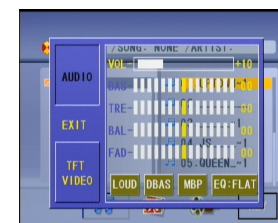Tapping EXIT icon can exit the SET Menu.

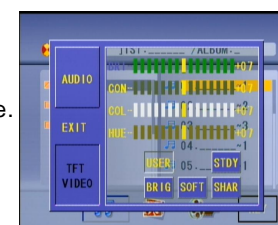**Keyboard interface-2**

SET Menu-1

SET Menu-2

4.2 Pause Playback

In the state of DVD/VCD/CD/MP3/WMA playing, press the PAUSE button on IR remote control to pause the playback, press the PLAY button to resume normal playback.

4.3 Stop Playback

In the state of DVD/VCD/MP3/WMA/CD playing, press the STOP button once to pause the playback, then press the PLAY button to resume the normal playback; press the STOP button twice to full stop the playback, then press the PLAY button to start playback from the beginning of the first chapter/track.

4.4 Select Chapter/Track with the >>| / |<< Button

Press the >>| / |<< button during playback to select the next or last chapter/ track to playback.

Note: Press the >>|/|<< button multiple times to advance multiple chapters/ tracks forward or backward.

4.5 Select Chapter/Track with the Number Buttons

In the state of DVD/VCD(PBC OFF)/MP3/WMA/CD playing, press one of the 1~9 and the 0/10 number buttons to directly select and play the 1st to 10th track/chapter (the 0/10 button is used as the 10 button).

If you want to play the track/chapter that s serial number is bigger than 10, use the 10+, 1~9 and 0/10 button. For example 1, to play the 13th track/ chapter, firstly press the 10+ button once, then press the 3 button. For example 2, to play the 34th track/chapter, firstly press the 10+ button for 3 times, then press the 4 button.(the 0/10 button is used as the 0 button)

Note: long pressing the +10 or -10 button can play the next 10 or last 10 chapter/track(only for MP3/WMA).

4.6 Select Chapter/Track with the Root/PBC Menu (If the disc includes the root/PBC menu)
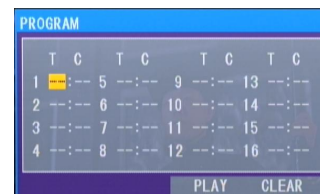
In the state of DVD playing

1.   Press the TITLE button on the remote control to display the title list.
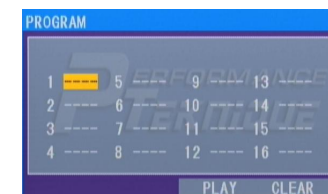
4.20 Program Playback

It allows you to enter the order in which you want some chapters/tracks in DVD/VCD/MP3/WMA/CD to play.
1   During playback, press the PROG button to enter a program interface as follows:

    for DVD   for VCD/MP3/WMA/CD

2   Use the direction buttons to move cursor onto the desired place for inputting the sequence number.
3   Use the number button to input desired sequence number of title/chapter/ track with desired sequence.
4   Use the direction button to move cursor onto Play item, then press the OK button to play the programmed titles/chapters/tracks in programmed order; only pressing the PLAY button also can play the programmed titles/chapters /tracks in programmed order.
*   To exit program playback, firstly press the STOP button, then press the PLAY button to enter sequence playback; or press the PROG button twice again.
*   To remove the all programmed sequence numbers, move the cursor onto Clear item, then press the OK button.
*   To change the programmed sequence, move the cursor onto the item you want to change, input the desired sequence number.
*   During VCD playback, if it is in PBC ON mode, at the same time of entering the state of program playback, it turns off PBC mode.

4.21 Playback IMAGE files

1. The root menu is displayed on the monitor when beginning to switch on IMAGE mode. .
In the root menu, the left file sort icon is for MP3/WMA file; the middle file sort icon is for JPEG file; the right file sort icon is for VIDEO file. If one of these 3 file sort does not exist, you can not move cursor onto the file sort icon.
2. When displaying the root menu, press the direction buttons to select your desired FOLDER, file or file sort icon, then press the OK or PLAY button to open the FOLDER, or play the selected file, or play only this sort of file. When displaying the root menu, you can also use the number buttons to select the serial number of the file and play the file.
When you select the JPEG file sort icon, press the ^ or > button to select the first JPEG file, then press the v button to select the desired JPEG file, finally press the OK or PLAY/PAUSE button to display the JPEG picture in full screen from the selected JPEG picture.

ZOOMx2,ZOOMx3,ZOOMx4,ZOOMx1/2,ZOOMx1/3,ZOOMx1/4,ZOOM OFF.
Press one of the ^/v/>/< buttons to select the area you want to enlarge.

4.16 Change the Caption Language

In the state of DVD playing, press the SUBTITLE button repeatedly to select the language of the caption or turn off the caption.(depend on the media used.)
In the state of VCD/MP3/WMA/CD playing, the button is not available.

4.17 Change the Audio Language

1. In the state of DVD playing, press the AUDIO button repeatedly on the IR remote control to select the desired language type. (depend on the media used)
2. In the state of VCD playing, press the AUDIO button repeatedly to select the sound mode of the MONO L, MONO R, MIX MONO and Stereo, no language function.
3. In the state of CD/WMA/MP3 playing, the AUDIO button is invalid.

4.18 Change the Video Signal System

During playback of DVD/VCD , press the BAND(P/N) button on the front panel or on the remote control repeatedly to change the VIDEO SIGNAL SYSTEM mode .

4.19 Look over the Playback Status

1. In the state of DVD playing, press the OSD button repeatedly on the remote control to turn on/off the playback status. When it is on, it will display the information such as: the serial number of the playing title, the serial number of the playing chapter, the elapsed time of the playing chapter, the remained time of the playing chapter, the elapsed time of the playing title, the remained time of the playing title, etc.
2. In the state of VCD/CD playing, press the OSD button repeatedly on the remote control to turn on/off the playback status. When it is on, it will display the information such as: the serial number of the playing track, the elapsed time of the playing track, the remained time of the playing track, the elapsted time of the disc, the remained time of the disc.
3. In the state of MP3/WMA playing, press the OSD button repeatedly on the remote control to turn on/off the playback status. When it is on, it will display the information such as: the serial number of the playing track, the elapsed time of the playing track, the remained time of the playing track.

2. Press the direction buttons to select your desired title, and then press the OK or PLAY button to open the root menu of the selected title.

3. Press the direction buttons to select your desired chapter, finally press the OK or PLAY button to play the selected chapter.

During playback, pressing the MENU button can directly display the root menu of the title that is playing.

In VCD mode

1. When starting to turn on the PBC function, it will play from the beginning of the disc till it display the PBC menu on TV screen if the disc include the PBC menu.

2. Press the number buttons to select your desired track to play.

In MP3/WMA mode

1. The root menu is displayed on the monitor screen all the time(and the TITLE or MENU button is not available).

2. Press the direction buttons to select your desired FOLDER, then press the OK or PLAY button to open the FOLDER, and then press the direction buttons to select your desired file, finally press the OK button to play the selected file.

In CD mode, the TITLE, PBC, MENU buttons are disabled.

4.7 Playback with Speed

During normal playback, long press the >>|/|<< button continuously to fast forwards or backwards at the following speeds: x2, x4, x8, x20, normal.

During speed playback, press the PLAY button to resume normal playback.

4.8 Playback with Slow Speed

During playback , press the SLOW_FWD button to execute the Slow Forward function.

With each consecutive pressing of the SLOW_FWD button, the playback speed decreases. The speed levels in Slow Forward as follows: x1/2,x1/3,x1/4,x1/5,x1/6,x1/7,normal.

During slow forward, press the PLAY button to resume normal playback.
The function is only for video.

4.9 Display still frame step by step

If the unit is currently playing video, press the TEL button consecutively
to display still frame step by step.
Press the PLAY button to resume normal playback.

4.10 Playback Repeatedly

4.10.1   ONE/ALL Repeat

1.   In the mode of DVD playback:
Press the RPT button to select REP CHAPTER, REP TITLE, REP ALL
or REP OFF.

2.   In the mode of VCD(PBC OFF)/CD playback:
press the RPT button to select REP ONE, REP ALL or OFF.

When it is in the state of PBC ON, during VCD disc playing, the RPT
button are not available.

3.   In the mode of MP3/WMA playback:
Press the RPT button to select REP ONE, REP DIR, REP ALL or OFF.

4.10.2   A-B Repeat

Press the **A-B** button if you want to repeat a specific segment on a disc
that you define:

1.   Press the **A-B** button at a point (A) where you want it to be the start point
of the repeat segment. Press the **A-B** button again at a point (B) where you
want it to be the terminal point of the repeat segment. Then it will play the
segment repeatedly.

2.   To cancel the A-B repeat mode and resume normal playback, press the **A-B**
button for the third time.

Note:
During VCD/MP3/WMA/CD playback, points A and B must be within the
same track.
During DVD playback, points A and B can be selected from different chapters.

4.11 Playback in Scan Mode

1. In the state of VCD(PBC OFF)/CD playing, press the INT button to play
the previous 15 seconds part of each track on the disc. Press the INT button
again to resume normal playback.

2. In the state of DVD/MP3/WMA playing, the INT button is not available.

4.12 Playback from a specified chapter/track or a specified time

1. In the state of DVD playing, press the SEARCH button to display a
interface and highlight the title item, then use the number buttons to input
the serial number of the title; use the direction buttons to highlight the chapter
item, then use the number buttons to input the serial number of the chapter;
you can still use the direction buttons to highlight the time item, then use the
number buttons to input the desired time to start playback; finally press the
OK or PLAY button to play the selected chapter or play from the selected time.

2. In the state of VCD/MP3/WMA/CD playing, press the SEARCH button to
display a interface and highlight the track item, then use the number buttons
to input the serial number of the track; you can still use the direction buttons
to highlight the time item, then use the number buttons to input the desired
time to start playback; finally press the OK or PLAY button to play the selected
track or play from the selected time.

4.13 Playback in Random

In the state of DVD/VCD(PBC OFF)/MP3/WMA/CD playing, press the
RDM button to switch between RANDOM (ON)/RANDOM OFF. When in
RANDOM (ON) mode, it will play in random.

4.14 Playback in Different View-Angle

1. In the state of VCD/MP3/WMA/CD playing, the VIEW-ANGLE button on
the IR remote control is not available.

2. In the state of DVD playing, press the VIEW-ANGLE button repeatedly
on the IR remote control to view in different angle.(This function is only
for the DVD media with ANGLE function)

4.15 Playback in Zoom Mode

In video/image mode, during playback, press the ZOOM button continuously
to enlarge a certain area of the images on the screen with these multiples: