



USER MANUAL



DVD/VCD/CD/MP3/USB/SD/MMC PLAYER FM/AM TUNER

# Safety Precautions

Thank you for purchasing this product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

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



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



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



To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergency situations.

Never expose this unit, amplifier, and speakers to moisture or water for preventing electric sparks or fires.



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



Please power off this unit at once and send it back to the after-sales service center or the dealer /distributor you purchased from if one of the following symptoms is found:



- (a). No audio output;
- (b). No image output;
- (c). Water or other obstacle enters the unit;
- (d). Smoking;
- (e). Peculiar smell.

To provide a clear demonstration and an alternative for easy understanding of the operation of this unit, graphic illustration was used. However, this illustration is not necessary printed as the actual image found on the unit.

# **Safety Precautions**

### Warning

Operate the unit correctly according to the manual instruction to prevent unnecessary problem.

## Caution

This product is a CLASS 1 LASER PRODUCT. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

### Two laser products

Wave length: CD: 780nm DVD: 650nm Laser power: No hazardous radiation is emitted with safety protection.

To reduce the risk of fire electric shock, and annoying interference, use only the included components.

# Caution of disc using

1. DO NOT use irregular shaped disc.



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



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



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# Features

#### **DVD-R/RW** compatibility

It is possible to playback DVD-R/RW discs recorded with the video format and Video Recording format.

### Video CDs featuring PBC

#### compatibility

It is possible to playback Video CDs featuring PBC (playback control).

### WMA and MP3 compatibility

It is possible to playback WMA and MP3 files.

### About WMA

The Windows Media™ logo printed on the box indicates that this unit can playback WMAdata.

Windows Media and the Windows logo are trade marks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

!This unit maynot operate correctly depending on the application used to encode WMA files.

# About MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a licensen or imply any right to use this product in any commercial (i.e.revenuegenerating) realtime broadcasting (terrestrial, satellite, cable and/or any other media), broad-casting/streaming via internet, intranets and/or other networks or in other electronic con-tent distribution systems, such as payaudio or audio-on-dem and applications. An indepen-dentlicense for such use is required.For details, please visit http://www. mp3licensing.com.

### **Button Operation Explanations**

#### Touch panel key operation

It is possible to operate this unit by using touch panel key.

#### Some frequent operations

1) Move cursor



#### 2) Confirm



#### Open the SOURCE MENU

Touch the top left corner of TFT screen under playing mode.

#### Touch screen

Due to the touch screen, you can fulfill most functions not only by pressing buttons but also by touching the options you desired.

# **Panel Controls**

Press [  $\bigcirc$  /  $\checkmark$  ] button to turn on the unit.





- 1. Power on
  - Mute
  - When on, long press to power off.
- 2. Press to pop out/push back the knob.
  - Rotate to adjust volume level.
- 3. Select the following sources:
  - >Radio
  - >Disc (when disc inserted)
  - >Card (when SD/MMC card inserted)
  - >USB (when USB connected)
  - >AV1
  - >AV2
  - >Blue-tooth
- 4. Reset
- 5. Remote sensor
- 6. Slide down the panel
  - Eject the disc (when disc inserted)

- Hold it to access panel menu:
  - >Open the panel
  - >Eject the disc
  - >Close the panel
  - >Adjust the panel angle (TILT+/-)
- 7. USB connector
- 8. Panel release
- 9. Press to enter audio/video setting mode.
  - Long press to enter SET menu.
- 10. AV-in jack

Press [ ] button to slide down the panel.

- 11. Disc slot
- 12. SD/MMC card slot



# **Remote Controls**

### Remote control operating range

The remote control can operate within a distance of 3~5m.



# Press [ ] to turn on/off the unit.



- 1. Select the following sources: >Radio
  - >Disc (when disc inserted)
  - >Card (when SD/MMC card
  - inserted)
  - >USB (when USB connected)
  - >AV1
  - >AV2
  - >Blue-tooth
- 2. Disc eject
- 3. Menu (DVD)
  - PBC (for VCD 2.0 or up)
- 4. Title (DVD)
- 5. Goto search
- 6. Radio band
  - Video system PAL/NTSC/AUTO
- Sound/display setting
  - Setting mode (long press)
- System setup
- 9. Adjust the panel angle (TILT-)
- 10. Adjust the panel angle (TILT+)
- 11. Zoom (DVD/VCD)
  - Dial/Receive call
- 12. Enter
- 13. Menu cursor
- 14. Stop/Return
- 15. Digit area
- 16. Enter source menu
- 17. Power on/off
- 18. Angle (DVD)
- 19. DVD subtitle
- 20. A-B repeat
- 21. Repeat
- 22. On screen display
- 23. Track random play
- 24. Radio tune
  - Track skip/seek
  - Reverse back/fast forward (long press)
- 25. Program
  - Call off/cancel
- 26. Volume
- 27. Play/Pause
- 28. Mute
- 29. DVD audio
  - VCD audio L/R/ST

# **Remote Controls**

# Replacing the lithium battery of remote control unit

When the range of the operation of the card remote control becomes short or no functions while operating, replace the battery with a new lithium battery. Make sure the battery polarity replacement is correct.

- 1. Open the back cover of the remote control unit.
- Insert the button-type battery with the stamped (+) mark facing upward. Close the back cover.



### Warning

- Store the battery where children cannot reach. If a child accidentally swallowed the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
- Do not expose or bring into contact the battery with other metallic materials. Doing this may cause the battery to give off heat, crack or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may give off heat, crack or start a fire.

# **Basic Operations**

### Turn on/off the power

- 1. Press [ ⓓ / ☑ ] button to turn on the unit. The unit goes back to the last status after power on.
- 2. When on, press [ () / ☑ ] button more than 2 seconds to turn off the unit.

#### Mute

When on, press [  $\textcircled{}/ \not \boxtimes$  ] button briefly to cut the sound.

# 🖉 Note:

- Pressing [ () / ♥ ] button briefly again or adjusting volume will release muting.
- "MUTE" appears on the TFT during muting.

# Adjust the volume

Rotate the [**VOL**] knob or press [+/-] button on the remote control to increase/decrease the volume level.

The adjustable range of volume is 0 to 39.

### Playing source selection

#### Method 1:

Press [ **SRC** ] button on the panel or remote control to cycle through all the available sources.

#### Method 2:

Open the 'Source Menu' by touch the top left corner of the TFT or press [ **MODE** ] button on remote control, and then touch the option you desired or select the option by moving the cursor and then confirm.

# 🖉 Note:

- When some devices are not ready, they cannot be selected.
- You should stop switching when the playing source you desired has been selected and wait for some seconds, the unit will auto enter the playing source mode you have selected.

# **Basic Operations**

### When parking brake applied

- If 'PRK SW' cable is connected to hand brake switch, the video display of the TFT monitor will be controlled by driving status, system setup and input video sources.
- 2. When the car is moving ahead, if the video disc is played, the screen appears "WARNING!! Engage Parking Brake to View Video", and blank screen. The above warning screen will prevent the driver watching images. The passengers at the rear seats can watch normally.

#### When reverse driving

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

### Using a USB Device

1. Push the cap of USB connector to the left, insert a USB device into the USB connector.

When connecting a USB device, the unit will read the files automatically.

 To remove the USB device, you should first select another source, in order to avoid damaging the USB device. Then take off the USB device, push the cap to the right.



#### Using an SD/MMC Card

- 1. Press [▲] button to slide down the panel, insert an SD/MMC card into the corresponding slot, the unit will read the files automatically.
- To remove the card, you should first select another source, in order to avoid damaging the card, then press the card slightly, and take off the card after it popped out.



### **USB/SD/MMC** Notes

USB functions (flash memory type) MP3 music play

- 1. SD/MMC card support
- USB flash memory 2 in 1 (SD/MMC) support
- 3. Fat 12/fat 16/fat 32 is possible
  - Fat 12/16 (dir: 200 support, file: 500 support)
  - Fat 32 (dir:180 support, file:1500 support)
- 4. File name: 32 byte/dir name: 32 byte /tag name: 32 byte
- 5. Tag (ID3 tag ver 2.0)
  - Title/artist/album: 32 byte support
- 6. Multi card reader not support
- USB 1.1 support USB 2.0 support (It can not support USB 2.0 speed. Just, get the same speed with USB 1.1) Not all kinds of USB devices are compatible with the unit.

### Insert a disc

Press [  $\triangle$  ] button to slide down the panel, insert a disc into the slot, and the unit will change to disc mode automatically.

# 🖉 Note:

- Please confirm whether there is a disc in the unit before you insert another one.
- The unit will exit current playing source and enter DVD mode when one disc is inserted.
- Some recorded discs, such as CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW cannot be played back because of different recording status. Otherwise, the discs without being closed could not be played back.

# Eject the disc

Press [ ] button to eject the disc.

Notes:

- After ejecting the disc, the unit reverts to SD card mode automatically if you have inserted an SD card, or the unit reverts to radio mode.
- You can eject a disc when the unit powered off. The unit remains off after the disc ejected.
- If the disc is not removed from the unit within 10 seconds, the disc will be reloaded to prevent accidental damage.

# Using the touch screen controls

The touch key areas for CD/VCD/DVD playback are outlined below:



- A Turn to main source menu
- B Display on screen control menu

# **Disc Playback**

1. When disc inserted, display shows "READ". For MP3 or disc with mixed files, reading time may exceed 1 minute.

- 2. "ERROR" will be displayed if error found in disc operation.
- 3. While CD/MP3/WMA files playback, CD/ MP3/WMA playback menu will appear on the display.
- For DVD, DVD icon will appear on the display and TITLE appears. Press [ ►II ] to play.
- 5. For VCD, VCD icon will appear on the display.
- 6. When video disc is playing, touch the screen, some touch keys will appear.

# File type supported

Audio file: MP3(\*.mp3), WMA(\*.wma) Video file: MP4 (\*.avi) MPEG 2 (\*.vob) MPEG 1 (\*.dat) Picture file: JPEG (\*.jpg) MP3 file:

ISO 9660 or ISO 9660 + Joliet format - Max. 30 characters.

Max. nested directory is 8 levels.

The max. album number is 99.

The max. length of each track is 99 minutes 59 seconds.

Supported sampling frequency for MP3 disc: 8KHz to 48KHz (44.1KHz preferably).

Supported bit-rates of MP3 disc are: 32 - 320 kbps (128 kbps preferably).

# Disc and file NOT supported

\*.AAC, \*.DLF, \*.M3U, \*.PLS, MP3 PRO files and files with DRM.

Open session discs.

# Stop playback temporarily

- During playback, press [►II] to pause playback.
- The sound will be muted.
- Display "PAUSE" in the TV screen.
  Press [ >II ] again to continue playback.
  To resume normal play, repeat the operation.

# Stop playback entirely

During DVD, VCD, CD, MP3 playback:

 Press [■] key on remote control once stopping the playback and the relevant

location on the disc is saved, press [ **>II** ] to resume the playback from the saved disc location.

 Press [■] twice to cease the playback. Press [▶II] to start the playback from the very beginning the Title page of the DVD or the first track of VCD / CD.

# Select desired track

- Press [ H◀ / ►► ] to skip to the next track.
- Use 1-9 and 0, 10+ buttons on the remote control to select desired track number.

# Fast forward/backward during playback

Press [ I◀ / ► ] for more than 2 seconds repeatedly to select X2, X4, X8, X20 to fast backward or forward track during playback.

- During the fast forward or backward operation, press [ >1] briefly to playback again.
- During the fast forward or backward operation, the volume will be muted.

## Random track playback (for CD/ VCD/MP3 Only)

You can play all the tracks in random order.

- 1. During playback, press [ →; ]. - "RANDOM" appears on the display.
- Press [ ⇒; ] again to select normal playback.

# Repeat

During playback, press [ **REPT** ] or [  $\bigcirc$  ] repeatedly.

- RPT icon will appear on the display.
- For VCD/CD: Display appears REP 1  $\rightarrow$  REP ALL  $\rightarrow$  OFF
- For DVD: Display appears CHAPTER  $\rightarrow$  TITLE  $\rightarrow$  REP ALL  $\rightarrow$  OFF
- For File disc: Display appears REP 1  $\rightarrow$  REP DIR  $\rightarrow$  REP ALL  $\rightarrow$  OFF

# 🖉 Note:

If you do not select REP on, when the entire disc or TITLE playback has finished, the system will stop. If no other control, after 5 minutes the unit will turn into standby mode.

# Repeat A - B

Select desired passage to repeat playback.

- Press **A B** once to select starting point Display shows "REPEAT A".
- Press A B again to select ending point. Display shows "REPEAT A - B", and selected passage start to replay.
- Press **A B** once again to exit. Display shows "A - B CANCEL".

# GOTO

Goto desired track/chapter or time point directly.

Press [ **GOTO** ] button on the remote control, track or DVD Title/Chapter and time display on top of the screen. Current item is highlighted. Use [  $\triangleleft$  /  $\blacktriangleright$  ] to select desired item. Use digit button to select number. Press [**OK**] to confirm.

### Program

Press [ PROG ] to enter program list. Use
 [▲/▼] or [ ◀/▶] cursor and digit button to enter number.

For DVD and File disc, select title and chapter number.

For VCD and CD, select track number.

- Press [ ►II ] to play, or move the cursor to select "PLAY" and press [ OK ] to play.
- If you want to delete the list, move the cursor to "CLEAR", press [ **OK** ] to delete all the list set before.
- Press [ **PROG** ] again to exit program play.

# **DVD Audio Select**

Press [ **AUDIO** ] to select audio language to listen if the DVD has multiple audio languages.

# VCD Audio Select

Press [ **AUDIO** ] to select audio channel to listen.



# **DVD Subtitle Select**

Press [ **SUBTITLE** ] to select the subtitle language to show if the DVD has multiple language subtitles.

### **DVD Title Select**

Press [ **TITLE** ] to display title or chapter list, use [ $\triangleleft / \triangleright$ ] or [ $\blacktriangle / \lor$ ] cursor or digit number to select, press [**OK**] to play.

# **DVD Angle Select**

Press [ **ANGLE** ] to select different angle to view if the DVD has multiple-angle views.

# ZOOM

Press [ **ZOOM** ] button, the picture will be zoomed accordingly.

 $X2 \rightarrow X3 \rightarrow X4 \rightarrow X1/2 \rightarrow X1/3 \rightarrow X1/4 \rightarrow \mathsf{OFF}$ 

# **DVD Playback Menu**

While playback touch the center of the screen:



#### Touch the icon to access desired function.

- 1. Subtitle select
- 2. Repeat playback
- 3. Audio select
- 4. Menu play
- 5. Select title
- Track skip/seek
- 7. Play/Pause
- 8. Stop
- 9. Display audio/video setting menu

### Video VCD Playback Menu

While playback touch the center of the screen:



#### Touch the icon to access desired function.

- 1. Random play
- 2. Repeat play
- 3. Audio select
- 4. Menu play
- 5. Track skip/seek
- 6. Play/Pause
- 7. Stop
- 8. Display audio/video setting menu

## CD/MP3 Playback Menu



- 1. Display main menu
- 2. Current track number/total track number
- 3. Current time
- 4. Playback information
- 5. Track skip/seek
- 6. Play/Pause
- 7. Stop
- 8. Show next menu

### MP3/MP4/PHOTO Menu



- 10. Random play
- 11. Repeat play
- 12. Show audio file
- 13. Show photo file
- 14. Show video file
- 15. Back to up folder
- 16. Back to playback menu

# PHOTO Intro Menu

While intro photos, touch the center of the screen:



#### Touch to access desired function.

- 1. Rotate the picture anticlockwise/clockwise.
- 2. Mirror the picture vertically/horizontally
- Zoom
- Previous/next picture
- 5. Play/Pause
- 6. Stop
- 7. Display audio/video setting menu

# Tuner Operation

Press the [ SRC ] button on the front panel or remote control or select "Radio" on the source menu of TFT to switch to the radio source.



- 1. Touch to return source menu
- 2. Time/Clock
- 3. Touch to tune automatically.
  - Press more than 2 seconds to tune manually.
- 4. Select previous/next preset station.
- 5. Show preset stations menu



- 6. Currnt station frequency
- Touch each of the six button to select a preset station.
  - Long press to store current station to the memory.
- 8. Touch to tune.
- 9. Touch repeatedly to switch band.
- 10. Preset scan
  - Auto store stations in preset (long press)
- 11. Show radio information menu.

# Tuner Operation

### Band

Press [ (1) / (1) ] to power on, then press SRC repeatedly to select tuner.

Touch [ 奈 ] on the TFT or press [ BAND ] on remote control repeatedly to select FM1 -> FM2 -> FM3 -> AM1 -> AM2

Display shows wave band on the top left, and preset stations on the middle.

### Tune

Radio tune manually: Press [▶▶]/ |◀◀] more than 2 seconds, then press briefly to select desired station.

Radio seek automatically: Press [ ►► ] / I◄◀ ] briefly.

### AMS: Auto Memory Store

Touch [ $\bigcirc$ ] on the TFT, scan the preset stations. Hold it more than 2 seconds, the 6 strongest available stations will be automatically saved in the memory of preset 1 - 6. Recall the preset station by touch it.

# **RDS (Radio Data System)**

RDS service availability varies with areas. Please understand if RDS service is not available in you area, the following service is not available.

#### **RDS Basics**

**AF** (Alternative Frequency): When the radio signal strength is poor, enabling the AF function will allow the unit to automatically search another station with the same PI (program identification) as the current station but with stronger signal strength.

**PS** (Program Service name): The name of station will be display instead of frequency.

#### AF Mode

Press the knob more than 2 seconds to enter SETTING mode - TUNER menu - AF: ON/ OFF

AF On: AF function is activated.

AF Off: AF function is disabled.

Remark: AF indicator on LCD will flash until RDS information is received. If RDS service is not available in your area, turn off the AF mode.

#### **REG Mode**

Enter SETTING mode - Radio menu - REG: On/Off.

REG On: AF function will implement the regional code (of the PI) and only stations in the current region can be tuned automatically. REG Off: AF function will ignore the regional code (of the PI) and stations in the other regions can also be tuned automatically.

#### **Traffic Announcements**

Some RDS FM stations periodically provide traffic information.

TP (Traffic Program Identification)Broadcasting of traffic informationTA (Traffic Announcements Identification)Radio announcements on traffic conditions

#### TA Mode

Enter SETTING mode - Radio menu - TA: On/ Off.

When TA mode is turned on, the TA indicator will blink.

When traffic announcement is received, the TA indicator will display. The unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement at TA volume level. After the traffic announcement is over, it will return to the previous mode and volume level. When TA is turned on, SEEK, SCAN, AMS function can only be received or saved when traffic program identification (TP) code is received.

#### EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are enhanced.

TA: Traffic information can be received from the current station or stations in other network. AF: The frequency list of preset RDS stations is updated by EON data. EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including the one that currently tuned into. If you preset a station around the area at your home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program, EON also keeps track of locally available TP stations for quick reception.

# Tuner Operation

#### PTY Reception (Program Type)

RDS FM stations provide a program type identification signal. Example: news, rock, info, sport, etc.

#### Program Information

To view available program information, touch [=] to enter preset stations list, and then touch and hold [?] to switch to PTY list. Touch [ I ◄ / ► ] to switch the previous/next list page.

Touch to select the desired Program Type as follows:

NEWS/AFFAIRS/INFORMATIONS/ SPORTS/EDUCATION/DRAMA/ CULTURE/SCIENCE/VARIED/ POP/ROCK/EASY/ LIGHT/CLASSICS/OTHER MUSIC/ WEATHER/FINANCE/CHILDREN/ SOCIAL/RELIGION/PHONE IN/ TRAVEL/LEISURE/JAZZ/ COUNTRY/NATION/OLDIES/ FOLK/DOCUMENT/TEST/ AI ARM

#### **PTY Search**

When Program type category is selected, listeners are allowed to find similar programming by genre, and the radio will start scanning for stations broadcasting in the selected category.

# **Bluetooth Operation**

# Note:

For your safety, avoid talking on the phone as much as possible while driving.

Bluetooth is a wireless transmission way for short distance. The built-in Bluetooth can connect with the mobile phones having Bluetooth function. After connecting, you can control your mobile phone through the unit.

Press [SRC] button repeatedly to enter BT menu, or touch top left of the screen, then select [BT] at source menu, sometimes you should press [ -> ] first.



# **Bluetooth Operation**

### Pairing

Use this function to establish a connection between the unit and your mobile phone.

- Long press the [SRC] button on the panel or top left of the screen to enter source menu.
- Touch [SET] button on the screen to enter the unit system setting menu.
- Touch [ ] button on the screen to enter Set/BT menu, sometimes you should press
   [ ] first.
- Switch the "Pair: On/Off" options to "On".



Press top left of screen to return to BT menu. Turn on Bluetooth function of your mobile phone, keep phone within 3 meters to the unit and start to search for Bluetooth devices.

After the name of the Bluetooth module "CALIBER" appears on the pairing list on your mobile phone, you should select it. At this time, a pairing code is required. Enter the pairing code ("1234" by default) and the Bluetooth pairing will process automatically. Some mobile phones may instruct you to select connect or disconnect, please select connecting.

# Stop Pairing

You can stop pairing in following two ways:

- 1. Enter BT Menu, switch the "Pair: On/Off" options to "Off".

### **Exit Phone Connecting**

After pairing successful, if you want to disconnect, long touch [ ] to cancel the connecting of the mobile phone and the unit. After disconnecting, "Exit Pair" will appear son the screen.

Also you can dis-connect or re-connect on

the Pairlist. First touch [ ]] on the BT menu. Select a phone name connected before, then touch [ - ● ] to dis-connect or touch [ - ● ] to re-connect. Touch [ -] to return BT menu.



# **Incoming Phone Waiting**

(if the mobile phone has this function depending on the type of mobile phone) In the mode of communication or BT AUDIO (MUSIC PLAYING), if there is a call coming in, the TFT screen will appear "Answer?". If you touch [  $\checkmark$  ] or press [  $\checkmark$  ] key on the remote control to stop communication you are making, and receiving the incoming phone. If you touch [  $\frown$  ] or press [  $\frown$  ] key on the remote control to reject the incoming call, and resume the former communication.

### Dial

Press [ ] on the BT menu to show number pad, then input the phone number by touching the number key on the screen, press [ ] to delet a digit, press [ ] to dial out. If you want to exit the number pad, touch [ ].

13800138000			
1	2	3	-
4	5	6	=
7	8	9	F
*	0	#	

# Voice Transfer

During talking, touch [  $\checkmark$  ] to transfer audio from the unit to your mobile phone, press again to transfer back to the unit.

# Bluetooth Operation

# 🖉 Note:

Some mobile phones will transfer audio from the unit to themselves once the incoming call is answered.

## BT Audio

(if the mobile phone has the A2DP & AVRCP functions)

After pairing successfully, in the mode of Bluetooth main menu, open the audio player of vour mobile phone and set the transmit mode to Bluetooth. At this time, the unit screen will appear "Music Playing", and the audio will be transferred from the mobile phone to the unit. Some mobile phones may instruct to connect with the unit. After found the Bluetooth device name "CALIBER" on mobile phone, you should select to connect it, and then input the pairing code ("1234" by default). When music playback, you can touch [ HI] to switch to play/pause, and touch [ I◄◄ / ►►I ] to control same as the [ I◄◀ / ►►I ] key on the front panel and remote control (if the options are available).

# LOG

After pairing successfully, in the mode of Bluetooth main menu, touch [ 1] to visit dialling history of your mobile phone.



- 14. Previous/next page
- 15. Dial
- 16. Hang up
- 17. LOG root menu
- 18. Received call
- 19. Dialed call
- 20. Missed call
- 21. Return to BT main menu

### **BT MENU General Operation**

Press the [**SRC**] button on the panel or the touch key to enter Source main menu, touch [SET] button on the screen to enter the unit system setting menu, then touch Bluetooth icon to enter BT menu.

#### 1. Pair On/Off

Set the automatic pairing On/Off. If select On, touch top left of the screen to return to BT main menu. "Connecting..." will appear on the screen.

#### 2. Auto Link On/Off

Set the automatic link On/Off.

When "Auto Link On" and "Pair ok", if the distance is over 10 metres, the connection will end. The Bluetooth technology will automatically establish a connection between the unit and the registered mobile phone when the transmission distance is 10 metres or shorter. When "Auto Link Off", the connection will not be established automatically.

When "Auto Link On" and "Pair ok", if in the Bluetooth main menu, long touch [ ] will end the connection of the mobile phone and the unit, and after 10 seconds, the connection will establish again automatically. When "Auto Link Off", the connection will not be established automatically.

Whether the "Auto Link" is set On or Off, when power is off then on again, the unit Bluetooth will connect the mobile phone (the Bluetooth function turning on) which is "Pair ok" last time.

#### 3. Automatic Answer On/Off

Set the automatic answering a call On/Off. When "Auto Ans On" and "Pair ok", if there is an incoming call, in 30 seconds, the unit will answer automatically, and voice will be transferred to the unit too.

When "Auto Ans Off" and "Pair ok", if there is an incoming call, the unit will not answer automatically until you choose receiving or rejecting.

# **Bluetooth Operation**

# Music Mode

A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

#### AVRCP

AVRCP is short for Audio/Video Remote Control Profile. The mobile phones supporting this function can control the playback of a Bluetooth audio player.

In the mode of the music player working, if you want to make a phone call, you can press the number keys on the mobile phone or on the remote control, then touch [ $\checkmark$ ] to dial. At the same time the music player will stop. After the call received, the voice will be transferred to the unit. When the call end, the TFT screen will appear "Music Playing". Some mobile phone may instruct whether resume to playback.

If there is an incoming phone call, the music player will stop, and the TFT screen will appear "Answer?". When the call ends, the TFT screen will appear "Music Playing". Some mobile phone may instruct whether resume to playback.

# **General Notes for Bluetooth**

- 1. For N7X, N9X, PHILIPS, Sony Ericssion, SAMSUNG mobile phones, during our test, after the mobile phones appear connection successful, the unit still appear waiting for pairing. At this time you must find the unit's Bluetooth module name "CALIBER" on the pairing list on your mobile phone and select it. In the submenu, select connecting, then the unit will appear "Pair ok". Otherwise, there is no voice coming out when communicating, though the mobile phone has already displayed "Pair ok". Some mobile phones, such as PHILIPS, when it playbacks A2DP, you must in its playback mode, find the unit's "CALIBER" and reconnect (check your mobile phone whether has the A2DP & AVRCP functions).
- 2. When pairing, some types of mobile

phone can instruct you how to operate, for example, when you make a phone call with the unit, but no voice comes out, it is because the mobile phone voice doesn't be transferred to the unit. The SAMSUNG mobile phone can instruct voice should be transferred to Bluetooth device.

- 3. Depending on the mobile phone, if private mode is selected, when you make a phone call with the unit, when received, the voice can be transferred to the mobile phone. But sometime the Bluetooth maybe disconnect till the communication ends, and connects your mobile phone and the unit automatically. Some mobile phones maybe require you to perform again the pairing operation.
- 4. For mobile phone, the Bluetooth device name must be primary symbols or numbers. Otherwise, some unpredictable issues may occur during the Bluetooth devices connecting and making phone call.
- After "Pair ok", if there is no sound produced, please check the Bluetooth stereo audio whether is switched to on or off.

# **Other Modes**

### AV mode

External peripheral devices with RCA audio and video outputs can be connected with the unit.

For more details, please refer to < Electrical Connections Overall Diagram >.

# System Setup

### Audio/Video Setting

Press the [ **MENU** ] button repeatedly to enter Audio/Video setting mode.



- I [IIIIII]: EQ setting menu. Touch [ < / ▶] button on the TFT to adjust Bass/Middle/ Treble or select preset EQ.
- [▶u◀]: Fader/Balance menu. Touch ▲ / ▼ on the TFT to adjust fader level, touch ◄ / ▶ to adjust balance level.
- ITTI ]: Video setting menu. Touch [ ◄ / ► ] button on the TFT to adjust bright, Contrast/ Saturation of the TFT.
- Touch [ → ] to exit audio/video setting menu and return to previous mode.

### SET Menu

You have 3 methods to enter setup menu. Method 1: Select "SET" on the main menu Method 2: Press the [ **MENU** ] button more than 2 seconds.

Method 3: Press the [ **SETUP** ] button on the remote control.



- 1. Display source menu
- Adjustable options
- 3. Current time
- Page up/down
- 5. Touch to access general setting options

- 6. Touch to access language setting options
- 7. Touch to access DVD setting options
- 8. Touch to access radio setting options
- 9. Touch to show next page of setting menu



- 10. Touch to access BT setting options
- 11. Touch to access TV setting options (optional)
- 12. Touch to access other setting options
- 13. Touch to show previous page of setting menu

#### General Setting

#### Beep: On, Off

Touch [On] or [Off] to select beep sound on or off.

#### Loudness: On, Off

Touch [On] or [Off] to select loudness on or off.

#### Time Mode: 12H, 24H

Touch [12H] or [24H] to select 12 or 24 hour time format.

#### Time Adjust: <a>Olive</a>

Touch left side of  $\boxed{02:20}$  to active hour setting, touch  $\checkmark$  /  $\blacktriangleright$  to adjust. Touch right side of  $\boxed{02:20}$  to active minute setting, touch  $\checkmark$  /  $\blacktriangleright$  to adjust.

#### Parking: On, Off

Touch [On] or [Off] to turn on or off the parking mode. At PARKING ON mode, play video disc, the screen appears blank screen.



# System Setup

#### Language Setting

#### OSD Language

Audio Language

Subtitle Language

#### Menu Language

Touch the language to the right of the option to show all the optional languages, touch to select. Or touch [ $\rightarrow$ ] to return to previous menu without any modification.

If the DVD disc has the audio file in the selected language, the dialogues you listened to will be in the selected language.

If the DVD disc does not contain the audio file in the selected language, the dialogues you listened to will be in the default language.

You can change the language by pressing [AUDIO] key of the remote controller.

### DVD Setting

#### TV System: NTSC, PAL, Auto

Touch [NTSC], [PAL] or [Auto] to select TV system.

#### TV Type: 4:3PS, 4:3LB, 16:9

Touch [4:3PS], [4:3LB] or [16:9] to select TV type to watch wide screen movies.

4:3 Pan Scan: For 4:3 TV, left and right edges will be cut.

4:3 Letter Box: For 4:3 TV, black bars will appear on top and bottom.

16:9: For 16:9 wide screen TV.

#### Password: Set

Touch [Set] to open keypad, enter rating password by the number buttons. Touch

🗕 to erase previous number. Touch

to confirm. The original password is "0000".

After you enter the password, [UNLOCK] appears on the screen, now you can adjust the rating level. If you want to [LOCK] it, enter a 4-digit password in the keypad.

#### Rating: ◀, ►

Touch  $[\P] / [\blacktriangleright]$  to select a rating level. The rating of the disc is from 1 to 8: (1) with the most limits when playing. (8) with the least limits when playing. Original setting: 8

#### Brightness: ◀, ►

Touch  $[\blacktriangleleft] / [\blacktriangleright]$  to set brightness of the video output.

#### Contrast: ◄, ►

Touch  $[\blacktriangleleft] / [\blacktriangleright]$  to set contrast of the video output.

#### Hue: ◀, ►

Touch [◀] / [▶] to set hue of the video output.

#### Saturation: ◄, ►

Touch  $[\blacktriangleleft] / [\blacktriangleright]$  to set saturation of the video output.

#### Default: Restore (only DVD)

Touch [Restore] to load original setting.

#### Radio Setting

#### Loc\_dx: Loc, Dx

Touch [Loc] or [Dx] to select radio local or distant.

Loc: Only stations with strong signal can be broadcast.

Dx: Stations with strong and weak signals can be broadcast.

#### St\_Mono: Mono, Stereo

Touch to select FM stereo or mono.

#### AF: On/Off

Choose AF (Alternative Frequency) on or off. AF On: AF function is activated.

AF Off: AF function is disabled.

Remark: AF indicator on LCD will flash until RDS information is received. If RDS service is not available in your area, turn off the AF mode.

# System Setup

#### TA: On/Off

Choose TA (Traffic Announcements Identification) on or off.

#### TA Volume: 08-34

Choose TA-VOL level.

#### Regional: On/Off

Choose AF function to implement or ignore the regional code (of the PI) and only stations in the current region can be tuned automatically.

#### BT Setting

#### Pair: On, Off

Touch [On] or [Off] to choose pair automatically on or off.

#### Auto Link: On, Off

Touch [On] or [Off] to choose connect automatically on or off.

#### Auto Ans: On, Off

Touch [On] or [Off] to choose answer automatically on or off.

#### **PIN Code: Set**

Touch [Set] button to open keypad, then set the bluetooth password by the number

buttons. Touch 🗲 the erase previous

number. Touch 💽 to confirm .The original password is "0000".

To reset the password, you should enter the original password first, then input a new password, touch **C** to confirm, input the password again to confirm.

#### Other Setting

#### TS Setting

When the touch operation is not sensitive or valid, you should calibrate the touch screen through "TS Calibrate" function.

Touch the adjust entry to enter calibrating menu, and follow the screen introductions by touching the two "+" points on the screen to finish the calibration.

#### SWC Setting

Power/Mute/Source/Vol+/Vol-/Seek+/Seek-/ Up/Down/Band/Navi Touch [◀] / [▶] to select the desired entry.



# **Device Connections**

#### Notes of connection

- This unit is designed to be used in a vehicle with a 12-volt battery and negative grounding. Before installing this unit to a recreational vehicle, a bus, or a truck, make sure the battery voltage is appropriate for this unit to be used, otherwise, install a transformer by professional to convert the output voltage to 12V.
- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.
- To prevent short circuit in the wiring and damaging to this unit, secure all wirings with cable clamp or adhesive tape. Route the wirings in a secured, out of heating place without touching any moving parts such as gear shift, handbrake, and seat rails to prevent the wiring insulation being melted / wore off.
- Never pass the yellow power cord through the installation hole into the engine compartment and connect to the car battery. Otherwise, a high possibility of serious short circuit to the electrical system may be occurred.
- Replacing a new fuse with 15A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fires. If a proper fuse is installed and electrical problems still occur, please contact with any professional car shops for inquiry.
- DO NOT connect other equipments with the car battery to avoid battery overheating.
- Please make sure all the wiring connections & the cables of the Speakers are wellinsulated. Otherwise, this unit may be damaged by short circuit.
- If there is no ACC available, please connect ACC lead to the power supply with a switch.

- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric spark or other damage may be resulted.
- Never ground the speaker output to prevent the damage to the built-in power amplifier.

# **Device Connections**

# Parking Brake Cable Connections





# **Reverse Driving Cable Connections**



# Installation

### **Electronic Connections**



# Installation

### **Electronic Connections**

- 1. If your car is equipped with the ISO connector, then connect the ISO connectors as illustrated.
- For connections without the ISO connectors, check the wiring in the vehicle carefully before connecting, incorrect connection may cause serious damage to this unit. Cut the connector, connect the colored leads of the power cord to the car battery, as shown in the colour code table below for speaker and power cable connections.

	Function		
Location	Connector A	Connector B	
1		Rear Right (+) - Purple	
2		Rear Right (-) - Purple / Black Stripe	
3		Front Right (+) - Gray	
4	Battery 12V(+)/yellow	Front Right (-) - Gray / Black Stripe	
5	ANT/Amp control/blue	Front Left(+) - White	
6		Front Left(-) - White / Black Stripe	
7	ACC+/red	Rear Left (+) - Green	
8	Ground/black	Rear Left (-) - Green / Black Stripe	

### Preparation

#### 1. Disconnect battery

Before you begin, always disconnect the battery negative terminal.



If the unit is to be installed in a car equipped with an on-board drive or navigation computer, do not disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.

#### 2. Remove transport screws

#### **IMPORTANT:**



#### 3. Remove unit from sleeve

Lift latches on both sides of sleeve to remove half-sleeve from the unit.

#### Mounting sleeve installation

- Slide the mounting sleeve off the chassis. If it is locked into position, use the removal tools (supplied) to disengage it.
- 2. Check the dashboard opening size by sliding the mounting sleeve into it.



If the opening is too small, carefully cut or file as necessary until the sleeve easily slides into the opening. Do not force the sleeve into the opening or cause it to bend or bow. Check for sufficient space behind the dashboard for the unit chassis.

This unit can be installed in any dashboard with a suitable  $183mm(w) \times 52mm$  (h) opening as shown above. The dashboard should be 4.75 mm - 5.56 mm thick in order to be able to support the unit.

3. Locate the series of bend tabs along the top, bottom, and sides of the mounting sleeve. With the sleeve fully inserted into the dashboard opening, bend as many of the tabs outward as necessary to firmly secure the sleeve to the dashboard.

#### CAUTION:

For proper operation of the player, the chassis must be mounted within  $20^{\circ}$  of horizontal. Make sure the unit is mounted within this limitation.

4. Place the unit in front of the dashboard opening so the wiring can be brought through the mounting sleeve. Follow the wiring diagram carefully and make certain all connections are secure and insulated

# Installation

with wire nuts or electrical tape. After completing the wiring connections, turn the unit on to confirm operation (vehicle ignition must be on). If the unit does not operate, re-check all wiring until the problem is corrected.

- Make sure the player is right-side up, then carefully slide the radio into the mounting sleeve until it is fully seated and the spring clips lock it into place.
- 6. Secure the rear of the unit to the car body using the mounting bolt and rubber cushion.
- Test the unit using the "Operation" instructions that follow.

### Kit Installation

If your vehicle requires the use of an installation kit to mount this unit, follow the instructions included with the installation kit to attach the unit to the mounting plate supplied with the kit.

- 1. Wire and test the unit as outlined in the Mounting Sleeve Installation instructions.
- 2. Install the player/mounting plate assembly to the sub-dashboard according to the instructions in the installation kit.
- 3. Replace the dashboard trim panel.

### **ISO Installation**

This unit has threaded holes in the chassis side panels which may be used with the original factory mounting brackets of some vehicles to mount the radio to the dashboard. Please consult with your local car stereo shop for assistance on this type of installation.

- Remove the existing factory radio from the dashboard or center console mounting. Save all hardware and brackets as they will be used to mount the new radio.
- 2. Carefully unsnap the plastic frame from the front of the new unit chassis. Remove and discard the frame.
- Remove the factory mounting brackets and hardware from the existing unit and attach them to the new unit. Do not exceed M5 x 9mm maximum screw size. Longer screws may damage components inside the chassis.
- 4. Wire the new unit as outlined in the Mounting Sleeve Installation instructions.
- 5. Mount the new unit assembly to the dashboard or center console using the reverse procedure of step 1.

#### Reset



Resetting the unit will erase the time and preset memories. It should only be activated upon initial installation after all wiring is complete, or if there is a malfunction of any of the switches on the unit. In these circumstances, pressing the RESET button will clear the system and return the unit to default operation.

#### Fuses

When replacing a fuse, make sure the new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio.

#### Reconnect battery

When wiring is complete, reconnect the battery negative terminal.



# Anti-Theft System

This unit is designed with a flip-down detachable panel.

The panel can be detached and taken with you, helping to deter theft. To detach the front panel, perform the following steps:

## Remove the panel

- 1. Switch off the power of the unit.
- 2. Press [ 📥 ] to flip down the panel.



3. Take off the panel from the chassis.



 Store the front panel in the supplied carrying case to protect it from dirt and damage and take it with you to prevent theft.

# Re-attach the font panel

- 1. Insert the left side of the panel in the chassis until correctly engaged.
- 2. Gently press the right side of the panel until the mechanism locks it into place.



3. Push the panel from horizontal to vertical until it clicks.



#### Remove the unit

- 1. Remove the panel.
- 2. Remove the trim plate.
- 3. Insert the removal keys straight back until they lock, then pull the unit out.
- 4. Disconnect all electrical wires.



# Troubleshooting

If you suspect something is wrong, immediately switch power off. Immediately stop using it and call the store where you purchased it. Never try to repair the unit yourself because it is dangerous to do so.

Problem	Cause	Corrective Action
Does not operate (display does not light)	No power to yellow wire; no power to red wire	Check connection with test light; check vehi- cle fuse with test light
	Fuse blown	Replace fuse
No power to unit	Fuse blown	Check/replace fuse
No/low audio output	Improper audio output connection	Check wiring and correct
	Volume set too low	Increase volume level
	Speakers damaged	Replace speakers
	Heavily biased volume balance	Adjust the channel balance to the center position
	Speaker wiring is in contact with metal part of car	Insulate all speaker wiring connections
Blows fuses	Power wire shorting to ground	Make sure wire is not pinched
	Speaker wires shorting to ground	Make sure wire is not pinched
	Incorrect fuse; fuse too small	Install fuse of correct rating
No image	Incorrect connection to parking brake wire	Check Parking SW wiring and correct
	Parking SW is connected but park- ing brake is not engaged	Stop vehicle in safe place and apply parking brake
Flashing image or interfer- ence appears on screen	DVD is not compatible with current TV system settings	Change setup to accommodate disc
	Improper video signal connections	Check wiring and correct
Prolonged image or improper height/width ratio display	Improper aspect ratio setup	Use correct ASPECT RATIO setting
Disc does not play back	Disc is warped or scratched	Use disc in good condition
	Disc is dirty or wet	Clean disc with soft cloth
	Laser pickup is dirty	Clean laser pickup with cleaning disc
	Incompatible disc is used	Use compatible disc
	Disc rating exceeds RATING limit	Change RATING 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

# Specifications

#### General

Power supply:

Maximum power output: Continuous power output:

Suitable speaker impedance: Pre-Amp output voltage:

Fuse: Dimensions (WxHxD): - Chassis - Nose Weight: Aux-in level:

# 4.3 Inch TFT LCD

Display resolution(dot) Active area(mm) Screen size(inch) Dot ptich(mm) Contrast ratio Brightness

FM Stereo Radio

Frequency range: Usable sensitivity: Frequency response: Stereo separation: Image response ratio: IF response ratio: Signal/noise ratio: 87.5-108.0MHz 8dBµ 30Hz-15KHz 30dB(1KHz) 50dB 70dB >55dB

522-1620KHz

30dBu

165 nits

#### AM(MW) Radio

Frequency range Usable sensitivity

### **Disc Player**

System: Frequency response: Signal/noise ratio: Total harmonic distortion: Channel separation: Video signal format system: Video output:

Disc digital audio system 20Hz - 20KHz >80dB Less than 0.20% (1KHz) >60dB NTSC/PAL 60/PAL/AUTO 1 ± 0.2V

12VDC(11V-16V), Test voltage 14.4V, negative ground 40W x 4 channels 25W x 4 channels (4 $\Omega$ 10% T.H.D.) 4-80hm 2.0V (CD play mode: 1KHz, 0dB, 10K $\Omega$  load) 15A 178 x 50 x 166mm

178 x 50 x 166mm 172x72x18mm 1.92kg ≥500mV

#### 480 (RGB) x 272 95.04(H) x 53.856(V) 4.3(16:9) 0.198(H) x 0.198(V) 400

#### Components

Mounting collar	1
Machine screws M5x6 mm	4
M4x6 mm	4
Mounting bolt (50 mm)	1
Wire connector	1
Removable face plate case	1
T-key	2
Operating Instructions	1
Rubber cushion	1
Remote control	1
External microphone	1

**Note:** Specifications and the design are subject to change without notice due to improvements in technology.