

TUVVA

KSD6280

In-Dash 6.2" Monitor

Touch Screen

DVD/CD/MP3/MP4

AM/FM Radio

With Bluetooth

Support MHL & Two Way



Owner's Manual

Take the time to read through this owner's manual.

Familiarity with installation and operation procedures will help you obtain the best Performance from your new DVD-receiver.

WARNING!

To promote safety, certain functions are disabled unless the parking brake is on, the unit is designed to detect parked status and must be connected to the power supply side of the parking brake switch. Improper connection or use of this connection may violate applicable law and may result in serious injury or damage. To avoid the risk of damage and injury and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver.

- To avoid the risk of accident and the potential violation of applicable laws, the front video image feature should never be used while the vehicle is being driven. Also, other video displays should not be in a location where it is a visible distraction to the driver. In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed and this unit's DVD features should not be used.
- Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- The supplier waves any and all liability when these warnings are not followed.

OPERATION PRECAUTIONS

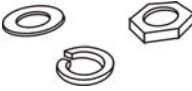

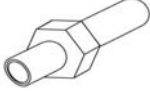
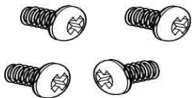

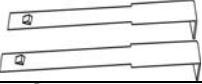
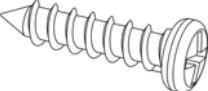

- Only connect to a 12Vdc battery and negative grounding.
- Avoid placing the product in direct sunlight, in areas with high levels of dust, high temperatures (over 40°C) or high humidity (over 90%). In case of high temperatures, cool down the car interior by means of ventilation or air-conditioning.
- Operate in well ventilated areas.
- Do not turn on or off the product in short intervals. When turning the unit off, wait for at least 10 seconds prior to turning the unit on again. Do not operate the player with scratched, bended or broken discs and when a disc is not loaded properly, do not force it into the player.
- Do not watch video playback while driving which will cause serious danger and risks of traffic accident. It may violate the laws and regulations.
(There may be exceptional case, i.e., using rear view camera and navigation system)
- Do not install the unit where the operation for safety driving is restrained.
- Do not disassembly the unit by yourself, if need repairing, please take the unit to the after service center.
- Do not open and close the monitor manually, it may damage the monitor tilt system.
- Do not touch the LCD screen by hard objects, it may damage or give scratch to the LCD screen.
- If the back of monitor touches dashboard or air-conditioner inlet etc after open the monitor , then setup TILT level in monitor TILT menu to prevent damage from repeat touching.
- Car parking under direct sunlight may increase the temperature inside the car and the unit may not be in proper operation, please try it again after the temperature returns to normal.
- Do not replace the fuse on the power cable without professional guidance, using improper fuse may cause damage to the unit or even cause burn the unit.
- Do not use irregular shaped Disk.
- IR remote control operation may be hindered by monitor when the monitor is opened, thus please use the remote control at the similar level of remote control receiver.
- Do not install the unit where the cooling fan is blocked.

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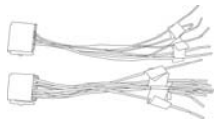
ACCESSORIES

Package contains the following accessories for installation and operation of the unit.

(1) Washer, Spring Washer, M5 Nut	1 each	
(2) Mounting Strap	1	
(3) Bolt	1	
(4) Screw	4	
(5) Mounting Collar	1	
(6) Release Key	2	
(7) Screw	1	
(8) Rubber Cushion	1	



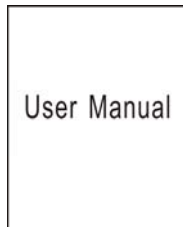
Remote Control



Power Cable



Trim Ring



User Manual

Noted: Product image may vary from the actual product.

INSTALLATION / UN-INSTALLATION

Note

Before starting installation of the unit, make sure the wiring is connected properly.

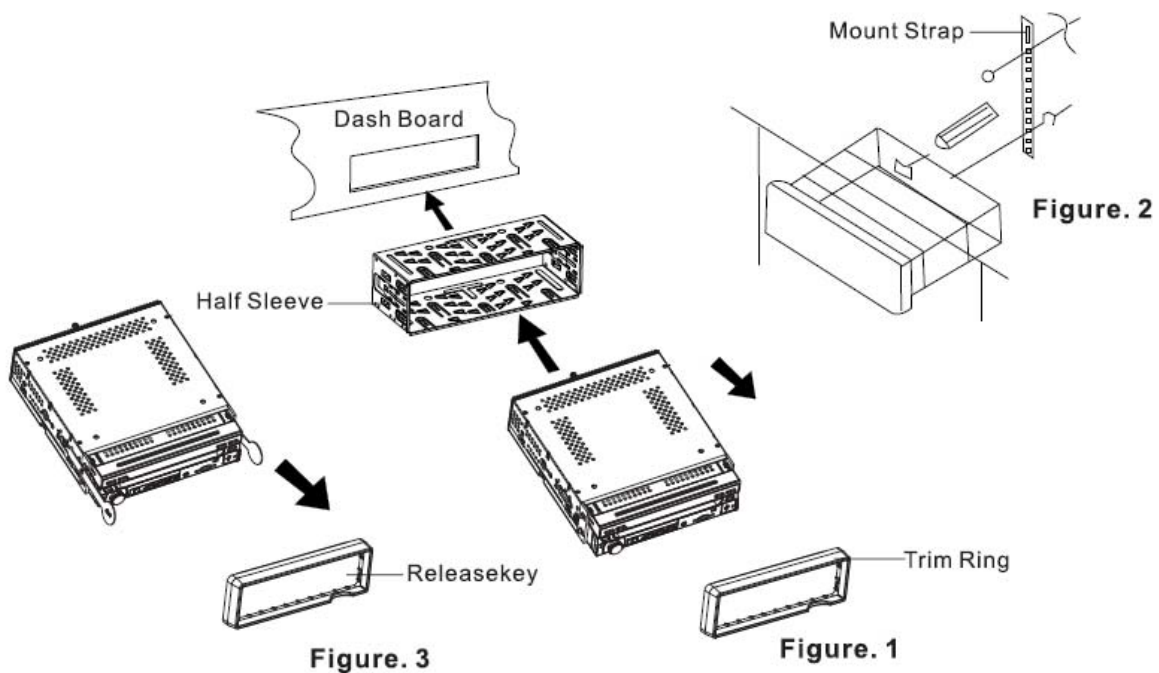
Use only the parts provided with the unit to ensure proper installation.

The use of unauthorized parts may cause malfunction.

Install the unit where it does not get in the driver's way and will not injure the passenger in case there is a sudden stop, like an emergency stop.

◆ INSTALLATION (Figure 1)

- ✧ Insert half sleeve into dash-board hole and bend mount tabs outwards to fix it
- ✧ If necessary, place the mount strap at the rear of the unit and fix it with provided washer as figure 2.
- ✧ Push the unit into the Half Sleeve until you hear a click sound
- ✧ Place Trim Ring over the unit and installation is completed as figure 3. (Some vehicle may not need Trim Ring)



◆ UN-INSTALLATION

Insert the supplied extraction keys into the unit and pull the unit out with keeping the extraction keys. (as Figure. 4)

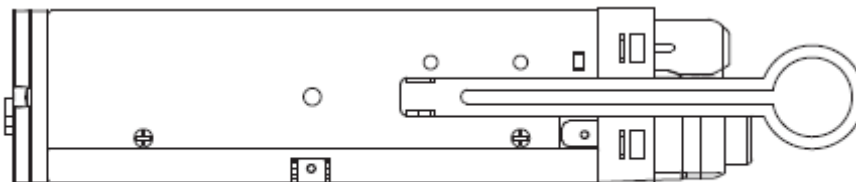
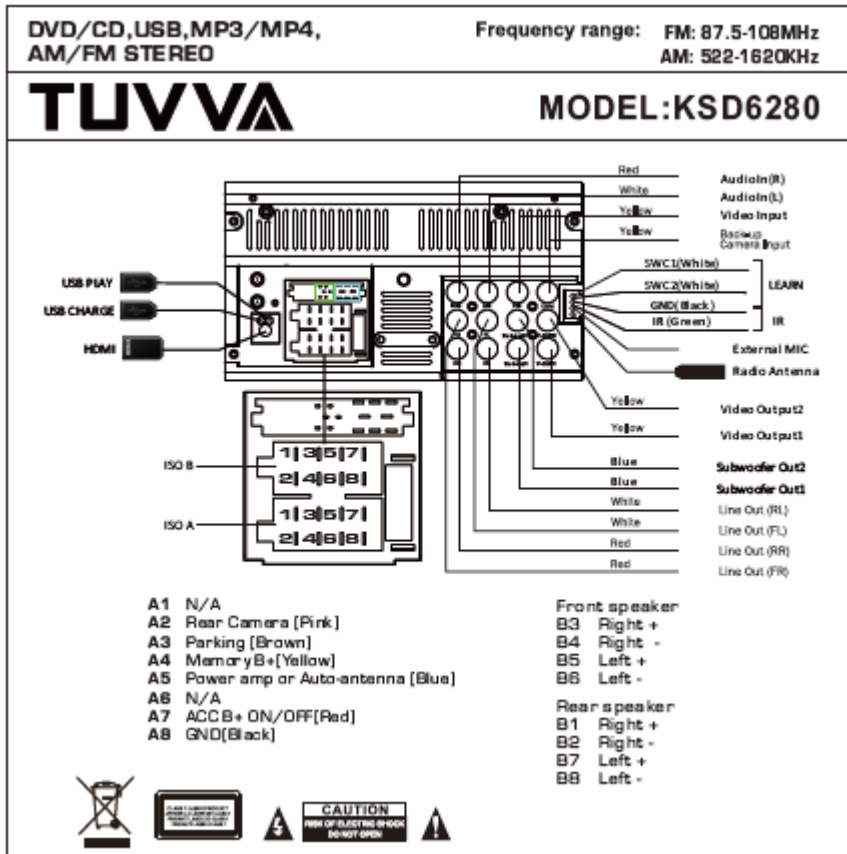


Figure. 4

WIRING CONNECTIONS

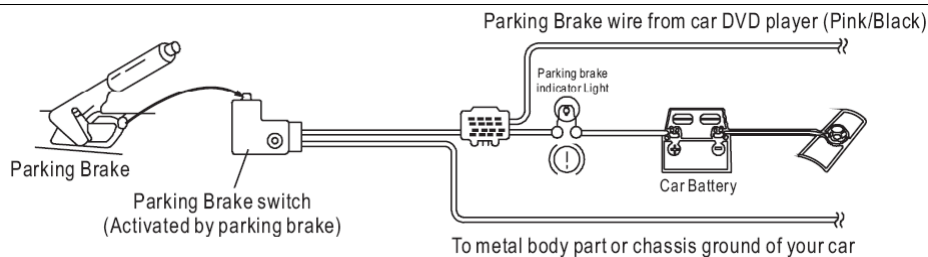


Note: Never connect cable to the system while it is connected to the battery power. Whenever the unit is disconnected from the battery, the preset memory will be erased and the unit will go back to its factory defaults.

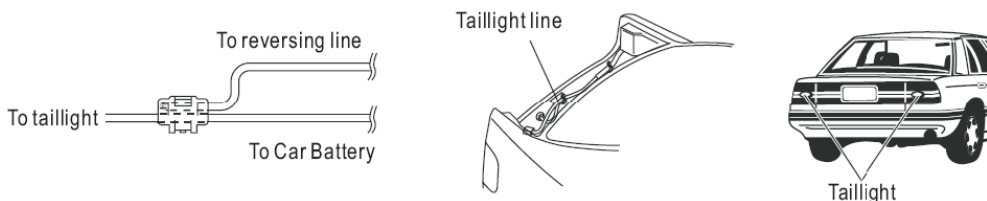
Note: To watch video the parking wire should be connected to break signal. 2 cables is connected to a Hands-Free device (not included).

Parking wire

Note: The parking wire is connected with brake signal; for safety, the programs can be seen on the monitor after braking the car.



Connecting the reversing line to taillight on the car



After connecting, when you start up the reverse gear, the unit will receive the picture from car rear view camera.

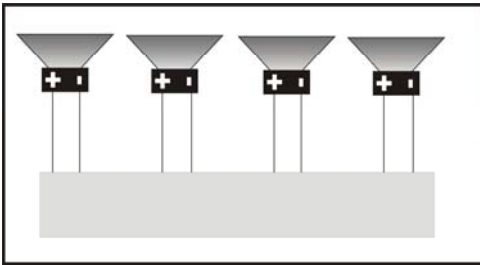
Note:

- Only use groundless loudspeakers.
- Only use loudspeakers of minimal 40Watt, using fewer watts may result in damaging your loudspeakers at higher volumes.
- Use 4~8 Ω (Ohm impedance) loudspeakers only; using higher or lesser impedance may damage the unit.
- Do not use 3-cable loudspeakers and do not connect the loudspeakers minus to the car body (GND). The unit is using a BTL circuit and each loudspeaker must be connected with insulated cables according the diagram.
- Loudspeaker cables and/or optional external power amplifiers must always be about 30cm away from the antenna and/or antenna extension parts.

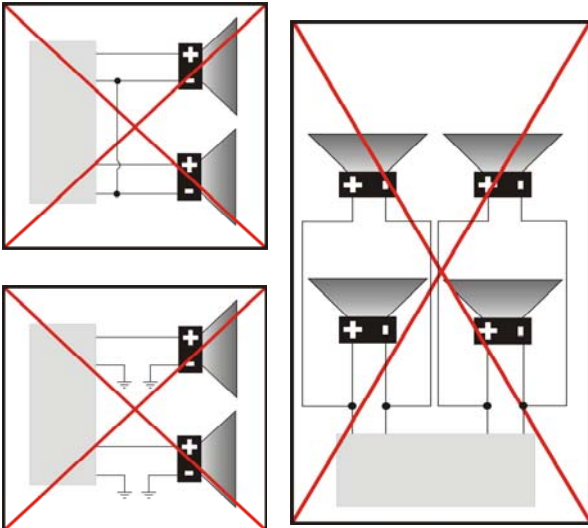
Connect the speakers according the following diagram, incorrect connections will damage the unit or your loudspeakers

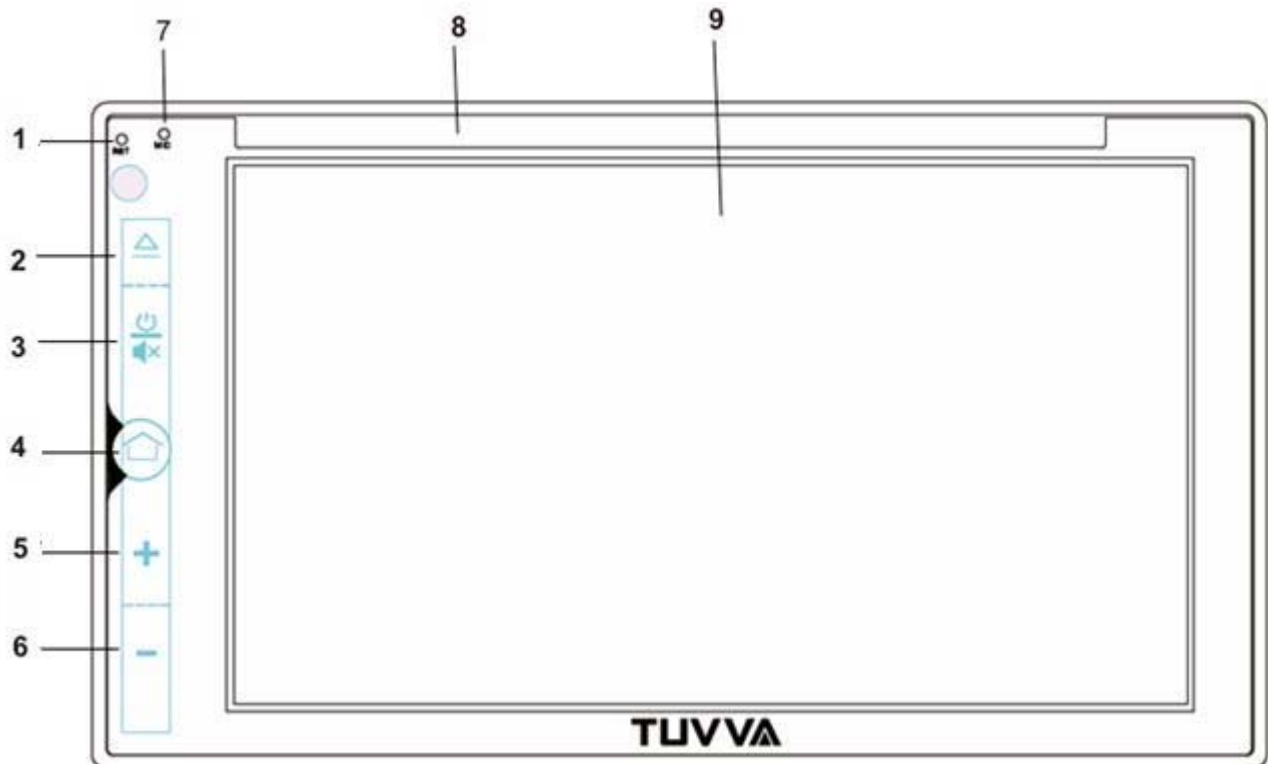
Correct connection

Left front - Right front | Left rear - Right rear



Incorrect connections





1.RST

Press it with a thin, sharp object, the device will then be reset to factory default settings.

2. EJECT Button

Press to eject a disc. If the disc is not removed for about 10 seconds after eject, the disc is reinserted automatically.

3. POWER / MUTE Button

When unit off, press to turn on the unit.

When unit on, press to mute, press it again to release mute.

4. Main Menu

Press menu button to go into home page.

5.VOL Increase Button

Press VOL increase button to increase the volume.

6. VOL Decrease Button

Press VOL decrease button to decrease the volume.

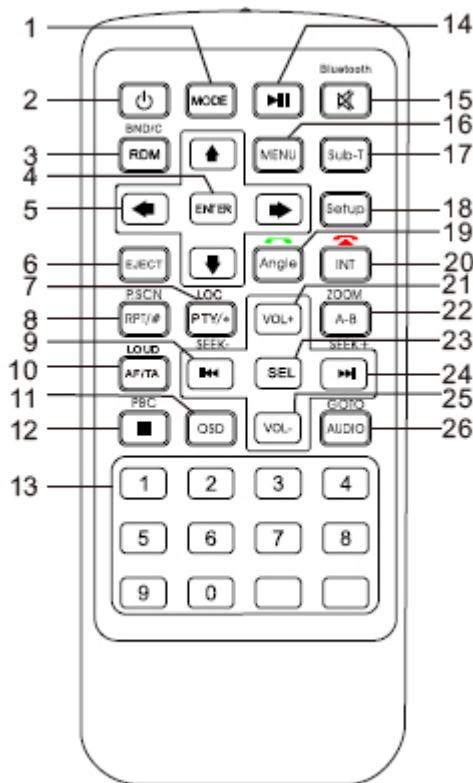
7. MIC

8. DISC slot

9. Info Display

LCD display information when operation the unit.

REMOTE CONTROL



- 1: MODE
- 2: POWER
- 3: BAND/RANDOM/CLEAR
- 4: ENTER
- 5: UP/DOWN/LEFT/RIGHT
- 6: EJECT
- 7: PTY*/LOC
- 8: P.SCN/RPT/#
- 9: BACKWARD/SEEK-FAST BACKWARD
- 10: AF/TA
- 11: OSD
- 12: PBC/STOP
- 13: DIGITAL NUMBERS
- 14: PLAY/PAUSE
- 15: MUTE/BLUETOOTH
- 16: MENU
- 17: SUBTITLE
- 18: SETUP
- 19: ANGLE/ACCEPT
- 20: INT/REJECT
- 21: VOLUME PLUS
- 22: A-B/ZOOM
- 23: SEL
- 24: FORWARD/SEEK+FAST FORWARD
- 25: VOLUME MINUS
- 26: AUDIO/GOTO

1. MODE button

Press it to select the mode: radio, disc (if there is a disc in unit), USB (if there is a USB device in the unit), SD (if there is a SD/MMC card in the unit), AV IN, BT phone and Mobilelink.

2. POWER button

Power on or off

3. BAND/ RDM/Clear

In radio mode, press to change radio band in sequence of FM1 → FM2 → FM3 → MW1 → MW2; In DVD mode, press to play randomly; In bluetooth mode, short press it to clear the single phone number; long press it to clear all the phone number.

4. ENTER button

Press it to confirm selection or setting.

5: Cursor // / buttons

Use the // /  buttons to select the menu item, the title, track or to show next frame.

6. EJECT button

Press it to eject the disc.

7. PTY*/LOC button

Press to select PTY type and input a digital key on the RC to confirm search. (Only RDS function and only for FM band).

In bluetooth mode, press it to make a symbol. In radio mode you can also press LOC button on the RC to set local or DX stations. (Only LOC function).

8. P.SCN/ RPT /#

In USB/DVD mode, press to repeat REP 1 => REP DIR => REP ALL

In radio mode, PS (preset scan): Press to scan all preset stations in the memory of the current band and stay on each memory stations for about 5 seconds.

AS (Auto Save), long press to save the stations with good reception automatically.

In bluetooth mode, press it to make a # symbol.

9. ⏮ / seek- button

In DVD mode, press ⏮ button to skip to the previous track, press and hold ⏮ button for two seconds to activate fast reverse (REW) search in a track.

In radio mode, press ⏮ button to start searching automatic, press and hold for two seconds to start manual searching. ⏮ button frequency down.

10. LOUD

Press to set TA on or off; press and hold AF/TA button for two seconds to set AF on or off.

Press to select loud on or off.

11. OSD button

In DVD mode press to show disc playing information, press and hold for 2 seconds to set video setup. (red / green/blue / color reset / bright / contrast / sharp/ black)

12. STOP/PBC button

Press to stop playback from the current position, press again to final stop to the very beginning in DVD mode. Press play/pause button to play.

Press and hold for two seconds to set PBC on/ off in VCD mode.

13. Digit 0-9 buttons

In radio mode, select 1-6 the desired band; In DVD mode, select track.

In bluetooth mode, press to input phone number , long press 0 number to make a + symbol.

14. PLAY/PAUSE button

In DVD mode, press it to pause playback, press again to resume.

15. Mute button/Bluetooth button

⊗ : Short press this button to mute the volume output, press it again to resume volume.

Long press this button to enter into Bluetooth mode.

16. MENU button

Press it to show main menu, in DVD mode, long press it to enter title menu (Available only if the DVD disc with title menu).

17. SUBTITLE button

Press it to select the subtitle language (Available only if the disc with subtitle function).

18. SETUP button

In DVD mode press it to enter the setup menu.

19. ANGLE Button/Accept button

In DVD mode, press it repeatedly to change the viewing angle (Available only with a recorded DVD file or DVD disc has this function).

In bluetooth mode, press to make a call after inputted a phone number or accept an incoming call.

20. INT Button /Reject button

In bluetooth mode, press to reject a coming call or hang up while calling.

Note: this unit has not INT function as it is universal remote.

21. VOL+ button

Press to increase volume level.

22. A-B/ZOOM button

During DVD playback, press it at the starting point of section you want to repeat (A), press this button again at the ending point of the section you want to repeat (B), section A-B repeating starts. Press it again to cancel the A-B repeat function.

Press it and hold for two seconds in DVD mode to zoom the image in or out in the sequence of zoom 2-> zoom 3-> zoom 4-> zoom 1/2-> zoom 1/3-> zoom 1/4-> zoom off.

23. SEL button

Press it to enter the sound setting menu, and press cursor UP/DN button to choose an item and press cursor left/right buttons to set the item, press SEL button again to exit the menu.

24. ⏭ / seek + button

In DVD mode, press ►► button to skip to the next track, press and hold ►► button for two seconds to activate fast forward (FF) search in a track.

In radio mode, press ►► button to start searching automatic, press and hold for two seconds to start manual searching. ►► button frequency up.

25. VOL- button

Press to decrease volume level.

26. AUDIO/GOTO button

In DVD mode press it to select the audio language.

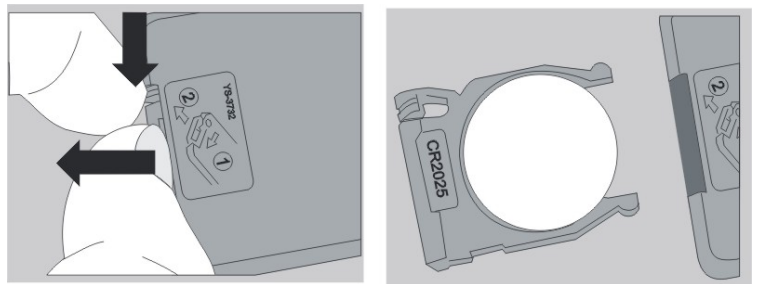
In VCD mode, press it to select the sound track in the sequence of mono L =>mono R =>stereo.

Note: this unit has not GOTO function as it is universal remote.

REMOVE BATTERY

Note:

- The distance may vary according to the brightness of ambient light.
- If the remote is not used for an extended period of time, remove the battery to prevent possible damage from battery leakage and corrosion.
- Do not place any objects between the remote control unit and the sensor on the unit.
- Do not drop the remote control onto the floor; it will damage it beyond repair.
- Do not use the remote control unit, while simultaneously operating the remote control unit of any other equipment; they may interfere resulting in improper operation.
- The battery normally last for about one year although depending how often the remote control is used. If the remote control unit isn't working even when it is operated near the unit, replace the battery with a new battery of the same make and use only a lithium cell battery type: CR2025 (3V).
- Dispose empty batteries in accordance with your local governmental regulations.
- Do not short-circuit, disassemble, heat or dispose of fire or flames the battery.
- Keep the battery out of reach of children, should the battery be swallowed, immediately consult a doctor.



MAIN MENU

The best way to discover the program is to explore each screen in detail, and to find out how to move from one to another. Read this chapter for a guided tour.

Unit starts by displaying the main menu.

This is the root of the screen hierarchy, and you can simply access all features by tapping on the touch screen buttons.

Tap the icons to enter a desired mode. Slip the screen left and right to switch between the menu pages.



Page 1

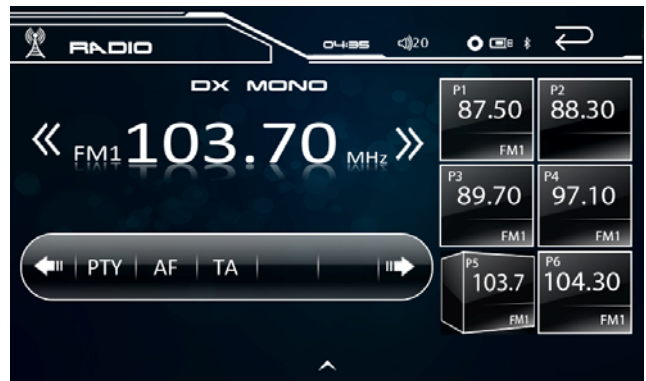


Page 2


◆ RADIO PLAYER




Page 1




Page 2


 Touch it to select station forward manually, touch and hold this icon to select station forward automatically.


 Touch it to select station backward manually, touch and hold this icon to select station backward automatically.

 Touch it to mute the volume output, press again to resume volume.

 Touch it to search stations and scan the stations from 1-6, long touch it to save the stations with good reception automatically and scan each station for about 5 seconds.

 Touch it to choose the bands: FM1, FM2, FM3, MW1, MW2.





 Touch it to set the local turning on or off.

 Touch it select stereo or mono sound reception.

 Touch it to open PTY, then touch the button  /  that can select program type.

 Touch it to switch an alternative frequency on or off.

 Touch it to switch radio traffic service on or off.

-  Touch it to go into radio mode in setting.
-  Touch it to go into home page.
-  Touch it to go into EQ system.
-  Touch it to adjust screen light.

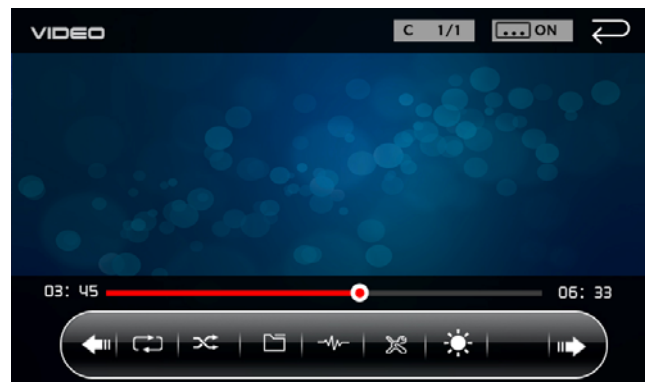
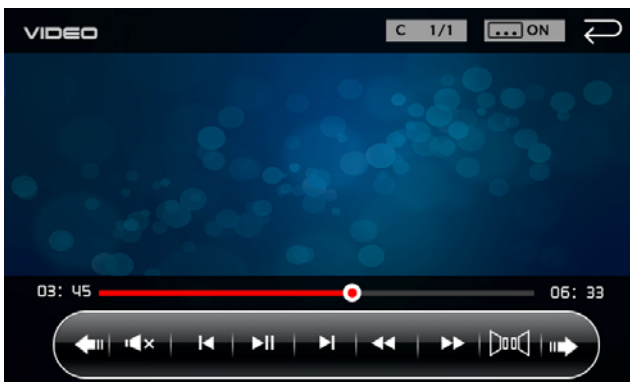
Note: When a radio signal is not received, the default for ST / MO function, once received radio automatically converted to ST.

◆ DVD PLAYER

To start DVD Player, tap on DVD button from main menu screen.















TOUCH SCREEN MENU

You will not see any buttons while DVD is played. Buttons will appear when you tap on TFT screen, tap the screen again to hide the buttons.




Note:


1. DVD player will automatically start playing when you insert any DVD disc.
2. Suggest that don't watch video if the vehicle is moving for driver's safety.
3. DVD Player will not only play video, but picture and music files as well.


-  Touch it to enter to previous/next page menu.
-  Touch it to mute the volume output, press again to resume volume.
-  Touch it to skip to the previous track.
-  Touch it to pause/play.
-  Touch it to skip to the next track.
-  Touch it to activate fast forward search in a track.
-  Touch it to start fast rewind playback, REW×2×4×8×20-play will be display.
-  Touch it to start fast forward playback. FF×2×4×8×20-play will be display.
-  In DVD mode, touch it can choose repeat chapter =>repeat title =>repeat off.
In VCD mode, touch it can choose repeat REP 1 => REP DIR => REP ALL.
-  Touch it to turn on / off random playback.
-  Touch it to elect folder.
-  Touch it to go into EQ system.
-  Touch it to go into general setting.
-  Touch it to adjust screen light.


 Touch it to exit DVD/VCD mode.


◆ DISC/USB OPERATION


 Touch it to previous page.

 Touch it to next page.


 Mute the sound.


 Touch it to select: repeat all=>repeat 1=> repeat off.


 Touch it to turn on / off random playback.


 Touch it to select music/video/photo files.


 Touch it to skip to the previous track.


 Touch it to play/pause.

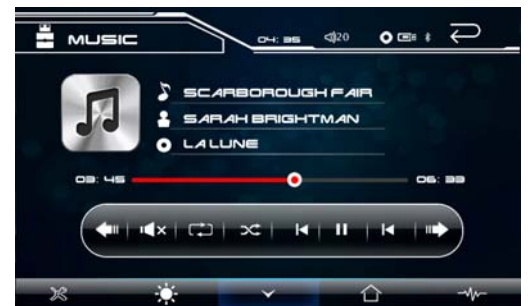
 Touch it to start fast forward playback
FF×2×4×8×20-play will be display.

 Touch it to start fast rewind playback.
REW×2×4×8×20-play will be display.

 Touch it to go into EQ system.

 Touch it to go into general setting.


 Touch it to adjust screen light.



◆ AV-IN Mode

To start AV-IN mode, tap AV-IN icon from hardware hole at behind. Connect the external audio/video signal source to this unit and select AV-IN mode in the main menu.

Note: If there is no external video input, the TFT displays “no signal”.

Press the  icon to be back to main menu.



◆ SETTING CONTROL

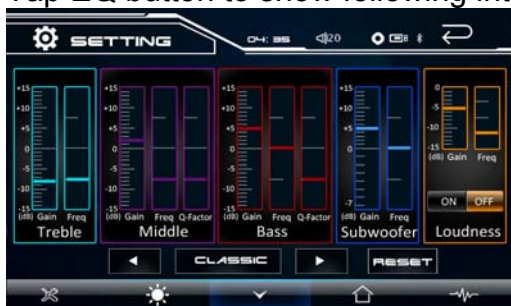
Your device has default system setting, you can customize the settings to suit your personal needs. once you change settings, your new settings will remain until you change it again. To start setting, tap it on main menu.

SOUND CONTROL



EQ System
Fader/Balance
Key Beep :Select off/on

Tap EQ button to show following interface



EQ	Select EQ mode
Bass	Bass up/down
Treble	Treble up/down
Middle	Middle up/down
Subwoofer	Subwoofer up/down
Loudness	Loudness on(up/down)/off

Tap Fader/Balance button to show following interface



	The position of loud speaker sound adjusting(front/rear/left/right)
Reset	Loud speaker sound reset
	The position of loud speaker sound manual adjustment

General Control



Language Setting
Background select Wallpaper
Desktop select desktop 1/2
Adjust LED color
Time setting

Tap language button to show following interface and user can select desired language.



Tap background button to show following interface and user can select desired background.



Tap desktop button to show following interface and user can select desired desktop.



Tap color led button to show following interface and user can adjust led color.



Tap time button to show following interface and user can set time.



Hour setting
Minute setting
Set 24hour format or 12hour format
Date setting



Desktop select desktop 1/2
Adjust LED color
Time setting
Default Value
Parking: select on/off

RADIO CONTROL



Stereo/Mono :select on (stereo reception mode) or off (mono reception),the function is available only in FM bands
Local: select Local/DX
Region :select Europe—Asia---USA---South American
RDS :select on/off
RDS TA VOLUME:select decrease/increase



RDS :select RDS on/off
RDS TA Volume :select decrease/increase
RDS TA :select on/off
RDS AF :select on/off
RDS C-time :select on/off

DVD SETUP MENU



Color : select decrease/increase
Brightness : select decrease/increase
Contrast : select decrease/increase
Tint : select decrease/increase



TV Type:

Set TFT screen mode to the correct ratio:

Two screen ratio modes are available, normal/PS (4:3 Pan Scan) and normal/LB (4:3 Letterbox), different disc formats will display different images depending this setting and the screen size used.

Note: additional wide 16:9 only for DVD player.

Rating /Parental Setup.

The Rating control level is for parents to control playing content and protect your children from violence, the level of which is higher than the setting level can not be played.

Code	Description
1.None	Kid safe
2.G	General audiences-suitable for all ages.
3.PG	Parental guidance suggests-some material may not be suitable for children
4.PG-13	Parents strongly cautioned -some material may be inappropriate for children under 13
5.PG-R	Restricted, under 17 requires accompanying parent or adult guardian.
6.R	Restricted, under 17 requires accompanying parent or adult guardian
7.NC-17	No one 17 and under admitted
8. Adult	Above 17 admitted

Password:

The password for this unit is initially set to factory default 0000. If you want to change your password, you need to enter the old password first and confirm it, and enter a new password and confirm.

Note: if you forget your password, you can reset the unit and the password will change to factory default 0000.

Bluetooth setting & QR code



Bluetooth	: select on/off
Auto connect:	select on/off



Auto answer:	select on/off
QR code	: scan QR code to download Mobile link APP

BLUETOOTH SECTION

Warning: Driving and having a telephone conversation at the same time is dangerous, please park your car before having a telephone conversation. The supplier waves any and all liability when this warning is not followed.

To enter bluetooth mode, you can tap bluetooth icon on main menu or long press the mute/bluetooth button on the remote control or press mode button on remote.



Tap calling button to use phone functions.

Tap music button to start bluetooth music player.

Tap history button to check dialed, received, missed calls.

Tap phonebook button to use phone book functions.

Pairing Mode

At the 1st time when using bluetooth, you need to pair the mobile phone first.

When a phone has not been paired with the unit, the BT icon and pairing mark will blink continually on the panel.

When the unit have connected with phone, the BT icon will turn on and the mobile phone name (if available) will be display on the panel.

According to mobile pairing device manual, after searching new device, select it, input password "0000" and confirm ok, device paring is finished.



The text 'enter number' will shows on the panel after the pairing is completed. It means device is connected and ready for bluetooth communication.

Auto-connect - Disconnect


When power on the unit, the last paired phone will be connected to the device via bluetooth automatically, after searching about one minute, if the device cannot find the paired phone, it will stop searching. When in standby mode (unconnected), long press bluetooth button on remote control to active auto-connect function and the device will search the last paired phone. If you want to disconnect the bluetooth connection, turn off the mobile phone buetooth function.

1. Calling Button

Tap on calling button to enter call mode.

In call mode, the unit can be used as your phone, making and receiving calls are possible with bluetooth, simply tap phone number and tap  button to make a call, and tap  button to hang up.

1) Tap clear button shortly to delete a wrong digit, tap the clear button or press RDM/C button on remote for 3-4 seconds to delete all the numbers at once.

2) Tap the  button for 3-4 seconds, the device automatically makes a call to the latest call in its call log.

3) The volume will be operated separately while calling.

Voice Transfer

During a call, you can change a call from bluetooth mode to phone by tapping transfer button, to have a call in bluetooth mode again, tap transfer button.

Note: the phonebook only supports western characters, any difference in character will be shown such as "+, * or #".

2. BT Phone Book

The unit can download the data from phone automatically when the pairing between a phone and the unit is completed.

The unit displays the data which have been downloading from a phone.

Select a number and tap send button to make a calling. Press the PB-DOWN button, phonebook will be updated and downloaded with new phonebook.

Note: bluetooth phonebook downloading must be at BT mode, if it is not, there may be failure as A2DP function, it does not matter to at BT mode or not.

3. Call History Mode

Tap history button to see history mode.

The unit can download automatically all the date from the mobile phone. dialed /received /missed calls are saved in history mode .Tap up/down arrow load previous /next history record.

The calls in each category are orderly saved from the latest one to the final one.

Select a number and tap send button to enter calling mode.

Note: the max value of history record is 20.

4. (A2DP) Music Mode

Tap music button to listen music in bluetooth mode.

Tap the button for 'music' in bluetooth main menu.

You can select the function with the key for previous, play / pause, stop, and next.

A2DP (Advanced Audio Distribution Profile) Music Player

A2DP is a function which can receive the audio frequency signal from the mobile phone, amplified by the car audio and played out by the car speakers.

Note: your mobile phone need to support A2DP.

Tap the buttons on the screen as shown, or press corresponding buttons (pause/play, stop, previous/next) on remote control to play, pause, play previous, or next music file.

OTHER FUNCTIONS

Subwoofer

Connect the subwoofer to the unit using sub output (see electrical diagram), tap menu on screen enter into main menu setting choose setting menu., choose sound and set subwoofer on to enable subwoofer.

Parking

When the car is stopped and the parking brake is working, the screen can display the video image, otherwise the screen can't display the video image.

SWC Function

To start SWC function, tap on SWC icon from setting menu screen.

1) First check whether the car has steering wheel button.

2) The steering wheel and the unit must be connected on the line.

3) Open the unit and SWC interface as follows:

4) While holding down the button on the steering wheel and the corresponding button on the SWC interface it will display complete setting. When all the buttons on the steering wheel and the corresponding button on the SWC interface complete setting, you can use the steering wheel button to operation the unit,



such as in radio mode, press button or button to search station backward or forward; In DVD mode, press button or button to select the previous or next track and activate fast reverse (REW) search or fast forward in a track, press VOL+ button or VOL - button to adjust the volume.

Note:

1. The “Enter” button and the “reset” button are not included in steering wheel, press the “enter” button to confirm the select, press the “reset” button to clear the former select.
2. The restriction of use SWC is the voltage between the adjacent buttons are above 0.2V that can be identified.

PAC function

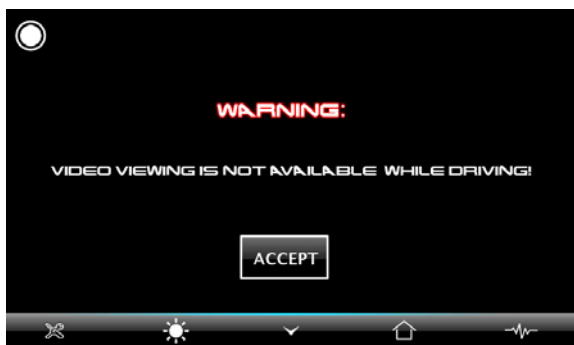
Support PAC box, detailed PAC function and operation please refer to PAC box manual (This packing not include) .

Mobilelink Operation

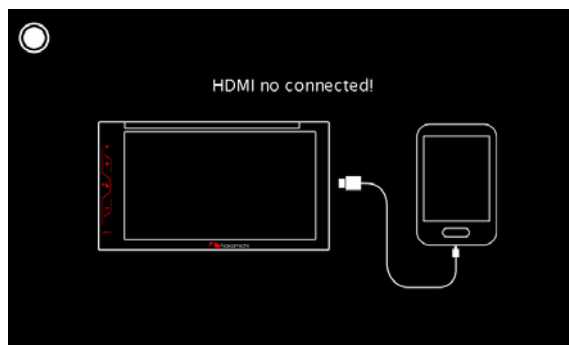
The unit contact mobile phone by HDMI cable, and mobile phone bluetooth pair with unit bluetooth, user can make own choice by tap the buttons and show function both in phone and unit.

Note: mobile link APP must install on the mobile phone.

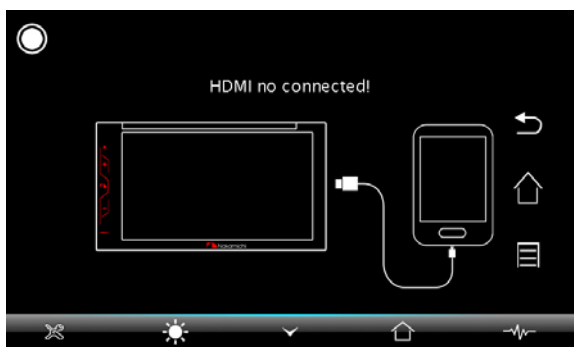
1. Touch the icon appear page 3 interface, user can select buttons on the right to realize mobilelink function and select buttons at the bottom to go into system interface fast. Long touch and drag button where you desired.
2. Touch the icon to be back to main menu.
3. Touch the icon to be back to previous page.
4. Touch the icon to elect desired file.



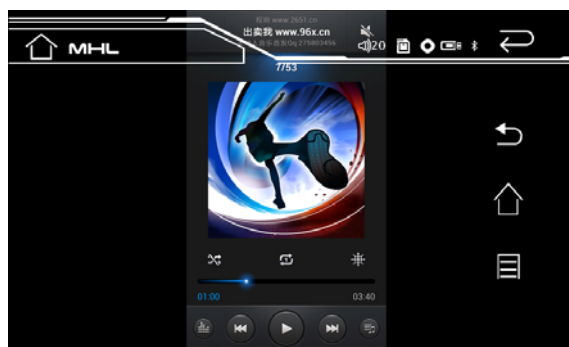
Page 1



Page 2



Page 3



Page 4

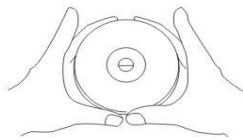
NOTES ON DISC

- ✧ Only use groundless loudspeakers.
- ✧ Use only loudspeakers of minimal 40Watt, using fewer watts may result in damaging your loud speakers at higher volumes.
- ✧ Use 4~8 Ω (Ohm impedance) loudspeakers only; using higher or lesser impedance may damage the unit.
- ✧ Do not use 3-cable loudspeakers and do not connect the loudspeakers minus to the car body.
- ✧ (GND).using a BTL circuit and each loudspeaker must be connected with insulated cables according the diagram.
- ✧ Loudspeaker cables and/or optional external power amplifiers must always be about 30cm. away from the antenna and/or antenna extension parts.
- ✧ If want to display for 7" TFT, parking wire must be connected to ground.

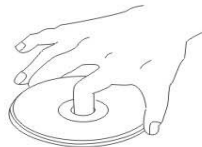
Handling discs

Handling

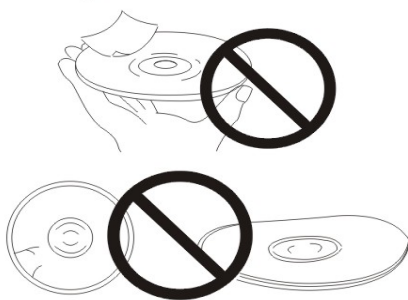
When holding
With both hands



When holding
with one hand



- Do not use damaged (cracked or warped) discs.
- Do not scratch the signal surface or let it get dirty.
- Do not attach paper or seals to discs. The player may be damaged if there is any exposed glue, etc., On discs. For rental discs in particular, extra labels are often attached to the discs. Check carefully for any exposed glue before using such discs.

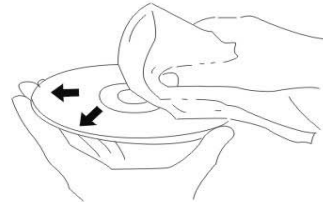


Storing discs

- Always place discs in their case and store them vertically. Avoid storing discs in hot or humid places, places exposed to direct sunlight and places in which the temperature is extremely low.
- Read any cautions included with the discs carefully.

Cleaning discs

- Fingerprints or dust on discs may reduce sound or picture quality. Remove them by gently wiping the disc from the center toward the edges using a soft cloth.



- Do not use benzene, thinner or other volatile chemicals. Do not use record spray or antistatic spray either.
- We recommend using the separately sold cleaning set to clean discs.
- For tough dirt, apply some water to a soft cloth, wring out thoroughly, wipe off the dirt, then wipe the disc with a dry cloth.

Irregular shaped discs

Irregular shaped discs (heart-shaped discs, hexagonal discs, etc.) cannot be played on this player. Doing so could damage the player. Never use such discs.



TROUBLESHOOTING

Symptom	Cause	Solution
No power	The car ignition is not on	If the power supply is properly connected to the car accessory switch the ignition key to "ACC"
	The fuse is blown	Replace the fuse
Disc cannot be loaded	Presence of disc inside the player	Remove the disc in the player then put a new upward
Disc cannot be read	Inserting the disc in upside down	Insert the compact disc with the label facing upward
	Compact disc is extremely dirty or defective	Clean the disc or try to play a new one
	Temperature inside the car is too high	Cool off until the ambient temperature returns to normal
No sound	Volume is in minimum	Adjust volume to a desired level
	Wiring is not properly connected	Check wiring connection
The operation keys do not work	The built-in microcomputer is not operating properly due to noise	Press the power button for about 10 seconds to reset the unit
	Front panel is not properly fix into its place	
Sound skips	The installation angle is more than 30 degrees	Adjust the installation angle to less than 30 degrees
	The disc is extremely dirty or defective	Clean the compact disc/try to play a new one
The radio does not work, the radio station automatic selection does not work	The antenna cable is not connected the signals are too weak	Insert the antenna cable firmly select a station manually

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TECHNICAL SPECIFICATIONS

General	
Power supply	11~16V DC
Current consumption	max. 10 A
Maximum power output	50W x 4 channels (max)
Compatible formats	DVD/SVCD/VCD/HDCD/MP3/MP4/VIDEO/CDDA /PICTURE CD/CD-R/-RW/DVD±R/±RW PLAYBACK
Dimensions (W x D x H) / weight	165*178*100 mm/2 kg
Working temperature range	-20°C - +60°C
ESP function	10 sec. for Audio CD, 120 sec. for MP3
TFT display	
Screen size	6.2 inch
Resolution	800*480 pixel
Aspect ration	4:3/16:9
Brightness	460 cd/m ²
Contrast ratio	500:1
FM radio	
Frequency range(Europe area)	FM:87.5 –108MHz(Step 50KHz)
Frequency range(America area)	FM:87.5 –107.9MHz(Step 200KHz)
Frequency range(Asia area)	FM:87.5 –108MHz(Step 50KHz)
Frequency range(South America area)	FM:87.5 –108MHz(Step 100KHz)
Preset memory stations	18
AM(MW)radio	
Frequency range(Europe area)	MW:522-1620(Step 9KHz)
Frequency range(America area)	AM:531-1602(Step 9KHz)
Frequency range(Asia area)	AM:530-1710(Step 10KHz)
Frequency range(South America America area)	AM:520-1710(Step 10KHz)
Preset memory stations	12
Audio specification	
Frequency response	20 Hz-20 KHz
TV Color System	Color system NTSC/PAL
USB interface	
USB type	USB 2.0 full speed
Support format	mp3 , wma, mpeg1, mpeg2, avi

Specifications are subject to change without notice, mass and dimension are approximate.