CAR A/V ENTERTAINMENT SYSTEM

CAR AUDIO SYSTEM

★ Before using this product, please read the manual carefully and keeping for safely.

USER MANUAL

123-08000017

FCC NOTE:

This device complies with Part 15 of the FCC Rules.Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.
Such modifications could void the user's authority to operate the equipment.

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Caution: For safety using this product, please read this manual, due to technical improvements to the design specifications and change, without notice.

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TROUBLE SHOOTING

Fault	The cause	Solution way
No power	1.Fuse off 2.Acc terminal unconnected	1.Change the same spec fuse 2.Connect with ACC terminal
Cannot be controlled or abnormal operation	Microprocessor fault	Please turn off and reset
No image	Brake wire fault	Re-connect brake wire
Screen Dark	Environment **Temperature is too low**	It is normal when Liquid crystal lightness become dark at low temperature ,Please turn on the unit and wait until warm up, it can restore normal brightness
Screen become brighter when the light inside car is turned on	Auto bright function start work	This unit is designed in auto dimmer It can adjust the brightness **according to** the light of environment. If you don't need it,please set to off position
Image, sound sometimes have,and sometimes **haven't**	Connect wire loose	Please reconnect the relative wire
Radio receiver sensitive low	1.Antenna was not connected properly 2.Antenna has not pulled out	1.Connect antenna properly 2.Pull the antenna out
Audio distortion	1.Screw for fixing speaker is loose 2.**Wrongly connected** with speaker wire	1.Fix the speaker rightly **2.connect the wire with speaker correctly**
No sound or sound is too low	1.Unadjust the volume 2.Unadjust the balance or FADER 3.The input and output wires are not connected	1.Adjust to suitable volume. 2.Adjust suitable volume of left right/front and rear speaker 3.Connect input and output wires properly
DVD/VCD/CD image and sound hold-up	Dirty disc	Clear disc or change a new one
No disc	Laser lense frozen	Please turn on power for 30 Minutes to warm laser lense up.
Remote control valid distance is too near , no reaction .	The battery was run out	Change the same spec battery
Not Read Disc	It's USB or SD outlook	Back to USB or SD , make reading Disc operation.

SPECIFICATIONS

Main Unit
Power Supply: DC12V(11V-16V)
Current consumption: <15A
Stand-by current: <10mA
Operational temperature range:
-20° C~+70° C

Audio Section
Rated output: 45W x 5ch
Maximum power output:45Wx5ch
Compatible speaker impedance:4Ω
Line output voltage:2Vrms

DVD player section
D/A conversion:24 bits
Frequency response:
20Hz~20KHz ±3dB
Total harmonic distortion:0.05%(1KHz)
Signal to noise ratio: ≥75dB
Dynamic range: 75dB
DVD disc content format(CD、VCD、SVCD、JPG、DVD、MP4、MPEG、DIVX...)
DVD disc audio format(AG-3 5.1、WMA、MP3、ADPCM、MPEG1/2Audio)
Sampling frequency: 44.1KHz、48KHz、96KHz

Input way: YUV
Resolution: 720 x480
AV Inputs/Outputs
Video------- 1Vp-p(75Ω)
Audio------- 500mVrms

NAVI
R.G.B inputs -------0.7Vp-p(75Ω)
Sync inputs-------- 5Vp-p
Audio inputs --------500mVrms(MAX)
Resolution: 800 x480

FM Stereo Radio Section
U.S. Standard:: 87.5-107.9MHz
Outside U.S.:87.5-108MHz
Usable sensitivity:10dBμ (S/N=30dB)
Stereo separation:30dB
S/N ratio(S/N):>50dB

AM Section
Frequency Range
U.S. standard:530-1710kHz
Outside U.S. :531-1629kHz
Usable Sensitivity: 33dBμ (S/N=20dB)
Image rejection ratio: >50dB

USB/SD card
support memory card with content format:
JPG.MP4.MPEC.DIVX.MP3.
USB1.1/USB2.0 port, do not support movable hard disk.

Bluetooth specs.
1)wireless menu: Bluetooth 1.2 version is original version.
2)Support Bluetooth Mode:HFP1.0,HSP,A2DP 1.0,AVRCP1.0
3)Frequency:Open 2.4G,1SM frequency
4)Effective range(open environment):at least 10 M away (30ft)
5)Sensitivity of Receiver:<-84 dBm at le-3 BER
6)Fitting Name: SUM-BMA19
7)Fitting Password:1234

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Before use

Cleanness of the products

Please keep cleanness with soft and dry cloth **Periodically**, wet the cloth for heavy dirtiness.

Temperature

Please don't operate the unit above + 70℃ or below -20℃.

Coagulation of humidity

Due to the coagulation of humidity, maybe you will notice that the tone is leaping. In this case, please eject the disc and wait for about one hour to vaporize the humidity.

Defective disc

Do not use the scratched / irregular or defective disc, or which will do harm to the playing equipment.

Forbidden

Not allow to nip or pull the disc while it is loading automatically. Don't insert any disc when power off.

Insert disc

Insert one disc each time. Upward the marked disc while inserting. It will eject automatically if something is wrong with the way you insert. But if it eject without any problems, dot the RESET with pinpoint pen please. While loading disc, maybe it will have tone leaping, but that would not do affection to the disc and player unit.

Irregular disc

Please use disc of common round shape but not peculiar shape, or it will do affection to the mechanism of the player unit.

New disc

As a protective measure to prevent the disc from clipping,if the disc was spit out after loading,turn a circle in the centre of the hole and the edge of the disc with finger please. If you find something scraggly or irregular on the disc surface,please rub the edge of both inside and outside disc to get rid of them with ballpoint pen or something,otherwise they will do affection to the loading of disc. Then you can insert disc.

Installation

This unit cannot be installed in any locations as below:

Under sunshine or high temperature
Under high temperature or in water
Dusty
Strong quaver

Operation

Please don't drop the disc while operating, don't remain your fingerprint or stick any paper or label and write on it.

Disc cleanness

The fingerprint\dust or dirt on the surface of disc will bring the playing of DVD into tone leaping. Please swab the disc surface with clean and soft cloth slightly for daily cleanness. Please wet some tender neutral scour with clean and soft cloth for heavy dirty disc.

Accessory of disc

There are many kinds of accessories on market for protecting the surface of disc or improveing tone quality, but most of them will influence the thickness or diameter of disc, that will result the disc in unfitting standard and operating problems. We suggest you'd better not use these accessories to the player.

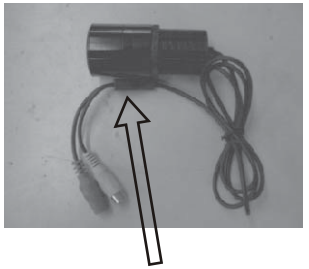
Managing ways for the knock-down panel in front

Not allow to expose it in rain or water.
Not allow to drop or hit it.

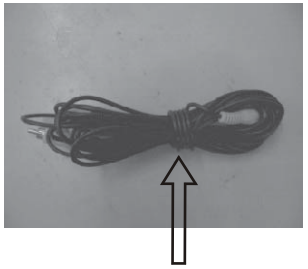
For LCD **temporally**, it's normal that the unit may remain the last pictures **temporally** after power off.

The contrast of menu will come out to be lack temporality while the unit is in low temperature, but will comeback to normal station soon.

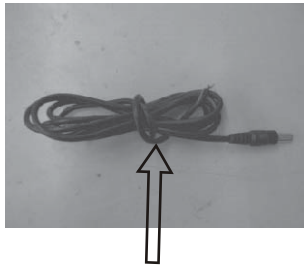
Car Camera installation guide



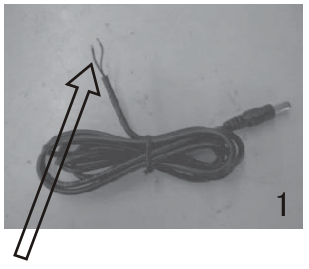
Camera

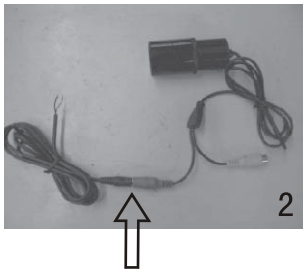


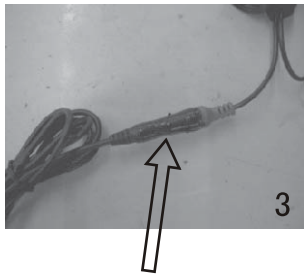
Video extension line (3m)



Camera supply cable



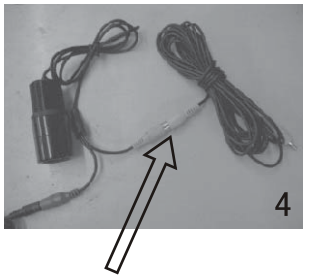


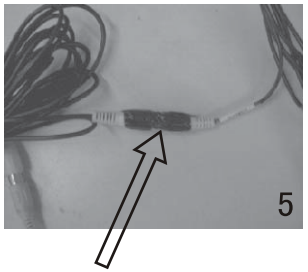


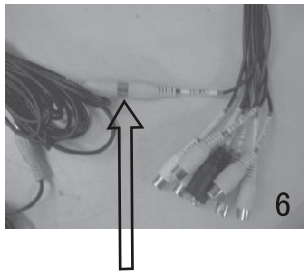
1.Connect supply terminals of Car camera and reversing light on back and pay attention to: (red line is connected positive line)

2.Be connected the other end (black plug) to supply connecting pin (red) of Car camera after good power connection.

3.Then packing with isolating tape .





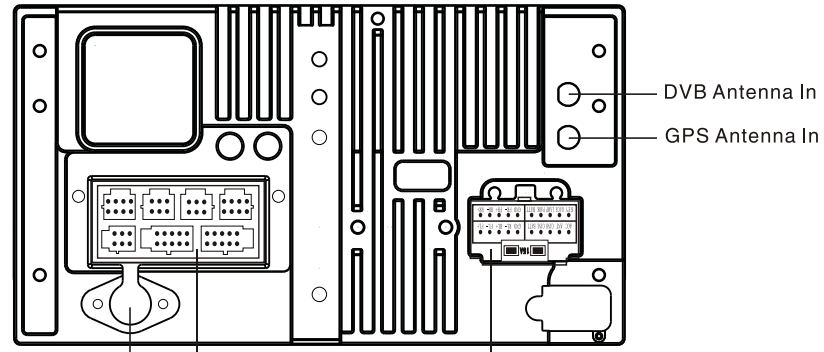


4.Be connected 3m video extension line to video connecting pin of camera.

5.Then packing with isolating tape .

6.Be connected the other end of 3m extension line to video input terminals of the host back. (with marked: CAMERA IN) and then use isolating tape to pack.

WIRING DIAGRAM



A.....CDC IN.
B.....Line OUT, SUB Woofer OUT.
C.....AUX OUT.
D.....IPOD IN.
E.....AV IN, CAMERA IN.
F.....EXT DVB.
G.....EXT GPS.

Power wire output terminal

ACC..... ACC
ANT.....AUTO ANT
CANH.....CAN BUS H
CANL.....CAN BUS L
BATT.....BATT+
GND.....GND
KEY.....STEERING WHEEL KEYS
BACK.....BACK WARD
LAMP.....LAM POWER
PARK.....PARKING
RL - .....Left REAR-
RL+ .....Left REAR+
FL- .....Left FRONT-
FL+ .....Left FRONT+
FR -.....Right FRONT-
FR+.....Right FRONT+
RR -.....Right REAR -
RR+.....Right REAR +

CAR AUDIO NAVIGATION SYSTEM

SAFETY CAUTION

To avoid causing damage to user and others or property loss ,now please be noted as following :

Such mark content indicate the forbidden item which is not allowed.

Such mark content indicate the forced item which must be performed.

Please ask the special technician for this unit to install and match wire for special technician and experience, please be accredited to sales agent to install and match wire to ensure safety .

Driver is not allowed to operate unit and watch picture when he is driving.

The unit is applied to car with DC 12V cathode ground. It can not be used in car with DC24V(such as large type truck and low temperature diesel oil engine) which may cause fire and trouble.

Can not use unsafe part to mount and connect to ground.

Ensure to use the fuse with specified capacity and replace fuse by special technician, not to operate by hand.

If meet with thunder , Ensure not to touch antenna or anywhere plug , which may lead to touch electricity dangerous.

Must take off car storage battery cathode wire during this case, it may cause touch electric-shock dangerous or hurt due to short circuit.

Don't damage wire, wire damage may cause broken wire or short circuit which lead to fire and accident.

For safety, it must be used with handed brake connection wire if it is not followed the correct notes for installation matching wire, the unit can not be operated normally, it may lead to traffic accident.

Don't use the unit at location where there is much rain water damp or dust.

The antenna must be firmly installed without falling, if there is no sufficient stick for mounting part it will be fallen during travelling the course of travelling, it's better to check it frequently.

Don't put hand to insert moving parts which may jam finger and hurt.

The specified method must be followed to install and match wire , Otherwise it may cause fire and trouble.

IF the wasted battery need to be disused

- please deal with them to follow your rules where you live.

GLOSSARY

SRS: Sound Retrieval System brings natural 3D sound and is licensed by SRS Labs.

FOCUS: With FOCUS, licensed by SRS Labs, the height of sound stage is elevated to the most optimal location regardless of the locations of speakers. The combination of SRS and FOCUS creates a perfect sound field.

DVD: Digital Versatile Disc
A type of disc which contains recording of audio / video packaged media with high video and audio quality, such as a movie, featuring large recording capacity and digital signal processing capability.

VIDEO CD (VCD)
A type of CD which contains the recording of moving images. It compresses image information by about 1/120 and audio information by about 1/6 and accommodates up to 74 minutes of recording in a disc with the same diameter as ordinary music CD of 12cm. Some VCDs do not have the PBC compatibility and are capable of playback only, while some are PBC compatible and are capable of various special playback control operations. This player can play both of these VCDs.

MPEG: Moving Picture Expert Group (DVD,VCD)
This is an international standard for digital video and audio compression and decompression in media.

Dolby Digital (AC-3)
This is a digital audio compression technology developed by Dolby Laboratories. It is compatible with 5.1-channel surround audio as well as normal stereo (2-channel) audio and can accommodate a large amount of audio data efficiently in a disc.

DTS
Name of a digital surround system developed by Dgital Theater Systems, Inc.

Top menu/menu (DVD)
Some DVDs display more than one title in a screen. This screen is referred to as the title menu. The DVD menu is the item display (menu screen) for use in setting operations. The DVD menu can be recalled anytime during playback to perform settings according to the current software, including the audio switching between Dolby Dgital and PCM, switching of language used in the subtitles and spoken voice.

Title number (DVD)
The title is the largest unit of video and audio recorded in a DVD. It usually corresponds to a single movie of video software or an album (sometimes a piece of music) of music software. The numbers assigned or individual titles are referred to as the title numbers.

Sub titles (DVD)
Some DVD discs contains the recording of more than one Subtitle language. This player allows you to select one of the recorded subtitle languages during playback.

Chapter number (DVD)
The chapter is a section of video and audio recorded in a DVD. A title is composed of several chapters. The numbers assigned to individual chapters are referred to as the chapter numbers.

Track number (CD, VCD)
A track is also a section of video and audio recorded in a disc. The numbers assigned to individual tracks are referred to as the track numbers. With most of music Discs, a track is assigned to a piece of music. However, with a VCD, the sections of the contents do not always correspond to the assigned tracks. As (special) playback functions such as skipping and programming of ordinary Discs are based on track number data, such playback functions are sometimes impossible with some VCDs.

PBC : Play-Back control (VCD)
When a VIDEO CD carries "Play Back Control capable" or similar message on the disc or jacket, desired scenes and information can be played back in an interactive manner using a hierarchical structure while viewing the menu screens displayed on the TV screen.

MP3
MP3 is an audio compression method and classified into audio layer 3 of MPEG standards. This audio compression method has penetrated into PC users and become a standard format. This MP3 features the original audio data compression to about 10 percent of its initial size with a high sound quality. This means that about 10 music CDs can be recorded on a CD-R disc or CD-RW disc to allow a long listening time without having to change CDs.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. Manufactured under license from Dolby Laboratories.

"Dolby", "AC-3" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

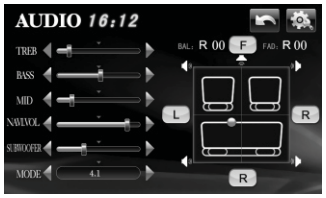
"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
"SRS" "FOCUS", (●)® and are trademarks of SRS Lab, Inc. This unit has been authorized by SRS Lab, Inc. To use of the SRS and FOCUS technology.

Screen Safer
The machine will automatically detect the file playing when it switch on.

Memory Play
The document does not withdraw from the mac-hine, continue play the memory of the current state when the unit switch on.

5) Setup Sound

At system control interface , press 【AUDIO】 display audio setting interface



Adjust the Treble Level TREB

Adjust the Bass Level BASS

Adjust the Mode: 4.1 and 5.1 MODE

Adjust the Navigation Level NAVI.VOL

Adjust the Sub woof SUB WOOF

Track source:

1.If your car already installed center-channel Speaker, please select 5.1 mode.

2.If your car don't have center-channel speaker, Please select 4.1 mode, then the main unit will add the average sound signal up to front left and front right track.

Note: If your car don't have center-channel spea-ker, please don't select 5.1 mode, which will result in no sound from center-channel When playing DVD with 5.1 sound source.

Sub woof:
Adjust the comparative volume of connecting woofer, range is "-15～+15".

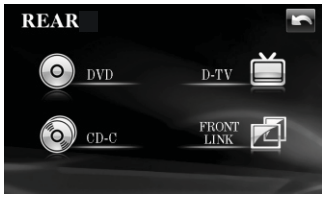
Note: please connect the woof to the black audio output port: sub woofer.

6) Select Input Source for Sub-monitor

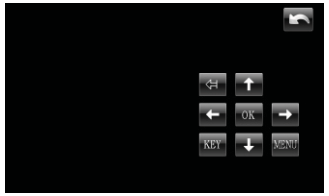
(Back seat entertainment function)

The sub-monitor can independently send diffe-ent sources to the front and the back seat inside car . For example, when you sit in front and listen to the radio or other sound, passenger who sit in back can also enjoy DVD by purchased back seating screen and earphone.

Press【REAR】from the system setup interface to show the status select for sub-monitor.



【DVD】Select DVD for sub-monitor.
【FRONT LINK】
Connect sub-monitor to main unit.
【DVB】Select DVB for sub-monitor.
【CD-C】Select CD-C for sub-monitor.



4) Press【 】key at right corner to return operation DVD direction key.

Language

Language menu includes optional items as below:

Language display on screen

English	
French	Traditional Chinese
Spanish	Simple Chinese

TITLE

English	
French	Simple Chinese
Spanish	Auto
Traditional Chinese	Off

Audio

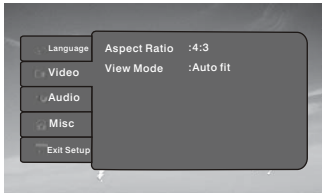
English	
French	Traditional Chinese
Spanish	Simple Chinese

DVD menu

English	
French	Traditional Chinese
Spanish	Simple Chinese

Note: The unit will play a default language recorded in DVD, when no language recorded in DVD disc matches the language selected.

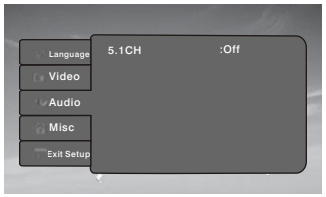
Video Menu



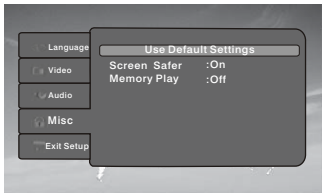
Video menu includes optional items as below:

Aspect ratio:	View mode:
4:3	Fill
16:9	Original
	Auto Fit
	Pan Scan

Audio Menu



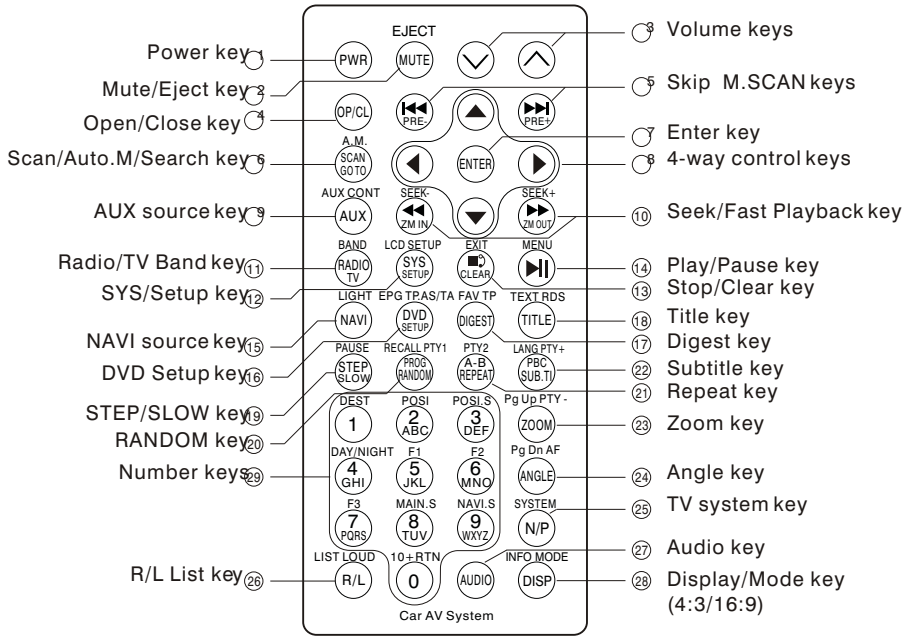
Others



Use Default Settings

A wrong selection in DVD setup menu will Cause fault to the unit. At this moment, please reset please reset the setup to default of factory.

Remote Control Instruction



BASIC INTRODUCE

1. ⏻	Power key	2. ⏏	Eject key
3.VOL · PWR	Power; Volume +/-	4.TUNE · BAND	Fine tuning/ Band selection
5.SOURCE	Source key	6.NAVI	Navigation key
7.RESET	Reset key	8.AUTO.M	FM auto memory channel
9.MUTE	Mute key	10.SCAN	FM channel through
11.	Bluetooth key	12.RADIO	Radio key
13. ⏯	Play/pause key	14.	Bluetooth indication led
15. ⏮	The up tune	16. ⏭	The next one
17. GPS micro SD	GPS Mirco SD socket	18. micro SD	Mirco SD socket
19.	Bluetooth microphone	20.	USB port
21.VOL+	Volume +	22.VOL-	Volume -
23. ☀/☽/ DIM	Day/night switch-mode	24.HOME	Home key

CAR AUDIO NAVIGATION SYSTEM

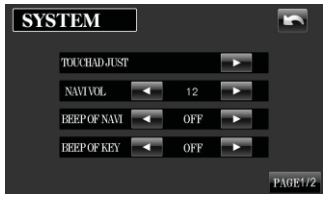
3) General Setup

Press 【SETUP】 from the system control interface to show the general setup interface.

① Press【◀】【▶】to change the selected item.

② Press【Page*/2】 to turn over the page.

③ Press【↩】 to return to previous level.



Adjust the Touch Front Panel

TOUCH ADJUST

It is necessary to adjust the touch front panel when the touch point is different from the display position on the screen.

① Press【▶】 to show the adjusted page.

② Press【+】 on the down left corner.

③ Press【+】on the up right corner.
Exit the adjusted page and save.

Adjust Navi Vol

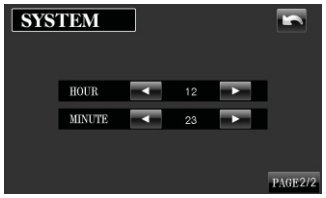
NAVI VOL ◀ 12 ▶
Vol- Vol+

Setup beep of Navi

BEEP OF NAVI ◀ OFF ▶

Setup beep of key

BEEP OF KEY ◀ OFF ▶

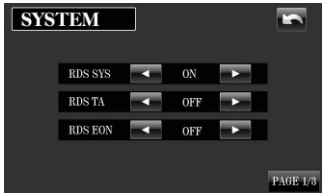


Set Time Hour Minute

Hour ◀ 0 ▶
Set Hour of Clock - +

Minute ◀ 0 ▶
Set Minute of Clock - +

Select 6 disc changer or 10 disc changer



RDS system power RDS SYS

Note: RDS TA and RDS EON only work after turn on this power.

Traffic Program Select RDS TA

OFF Turn off seeking traffic programs.

ON Turn on seeking traffic programs.

Select EON(Enhanced Other Networks) Selection RDS EON

OFF Turn off seeking EON.

ON Turn on seeking EON.

4) DVD Setting

At system control interface , press 【DVD】 display DVD setting interface

1)Press【✥】to select the items needed to be changed.

2)Press【OK】to ensure the items already changed.

3)Press【MENU】key to return to DVD function setting image.

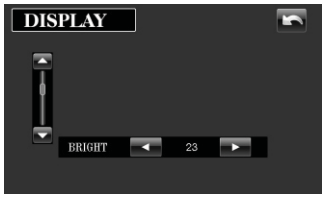
MENU SETTING

◆ System setting interface

Press【SETUP】from the main control interface to show the system setup interface.

1） Display setting operation

1.press system setup interface【DISPLAY】 display PICTURE SETUP image.



2. Touch the left sliding block to select the item you want to set.

BRIGHT -- COLOR -- TINT -- CONTRAST

3.press【◄】or【►】change selected item for setting value.

4. Press【↩】return to previous image.

Adjust Image Brightness

BRIGHT ◄ 0 ►

+dark adjust -bright adjust

Adjust the Color of Picture

COLOR ◄ 0 ►

-Color +Color

Adjust the Tint of Picture

TINT ◄ 0 ►

-TINT +TINT

Adjust the Contrast of Picture

CONTRAST ◄ 0 ►

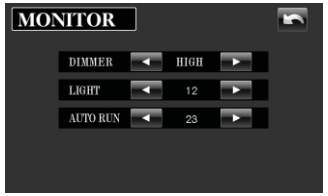
-Contrast +Contrast

Notes:

TINT only can adjust for NTSC system. In the DVD menu are not more than state regulation, the local DVD is high-definition digital signals.

2） Setup LCD Monitor

Press【MONITOR】from the system setup inter -face to show the monitor setup interface.



1、Adjust the Dimmer Mode

DIMMER ◄ HIGH ►

HIGH: Screen is the brightest ,the mode apply to stronger bright surroundings to obtain splendid and sharp image.

USER:User adjust screen brightness according their habit.

LOW: Screen brightness is the darkest, it apply to night time weak bright surrounding.

2、Adjust the Dimmer Level

LIGHT ◄ 15 ►

To be dark To be bright

3、Auto power on

AUTO RUN ◄ ON ►

The machine will automatically play the pro -gramme of last player tracks when you choose【ON】, choose【OFF】will not.

Note:

Press screen down left corner【↩】key, return to previous image .user can adjust the back -ground brightness under the【USER】mode.

BASIC OPERATION

Notes:

Leaving the image inactive too long may cause some ghost of image remaining on the monitor .

The display may be dark for a short time after the power is switched on, the display will return to normal in a few minutes .

Please DO NOT operate the LCD Monitor and watch while driving ! It is easy to happen an acc -ident if operate when driving . Please stop the vehicle in a safe place then operate and watch . Kindly be noted that it is prohibited by law to operate the unit or watch LCD Monitor while driving in some countries .

1. ⏻ Power

1) In standby mode, the light this button, the machine power is turned on.

2) When the unit is in running state, the long press machine power will be cut off.

3) Rotation of the adjusting the size if the sound.

2. ⏏ Eject key

Press the key to load /eject of disc.

3.VOL · PWR Power/Volume

1) In standby mode, the light this button, the machine power is turned on.

2) When the unit is in running state, the long press machine power will be cut off.

3) Rotation of the adjusting the size if the sound.

Tip:

★ In each turn, the volume is set at your last position when power off.

★ When the continuous press the volume keys, the volume will increase or decrease con -tinuously.

4.TUNE · BAND Fine tuning/Band selection

1) When in FM mode, rotate the key to finetune control, touch is the band selection.

2) When the DVD and VCD/ USB/ SD state, this key is on a rotating/ next track operation. However, when disc DVD disc, the rotation is invalid. pressing lightly to determine. (Note: Some discs can not be used or some of the contents of this operation.)

3) When in DVB mode this key will be rotated on a table / control of the next station, press -ing lightly to determine.

5.SOURCE Source key

Press this key to cycle the main menu, click again to stop the cycle.

6.NAVI Navigation key

Click this button then enter the navigation con -trol, when in navigation mode while this button is pressed to exit the navigation.

7.RESET Reset key

Press the key to return to the factory settings.

8.AUTO.M FM auto memory channel

Press this key, seek one at all channel, and auto store the sought program to"P.set01" to "P.set 10".

9.MUTE Mute key

Press this key for mute control, press again to cancel.

10.SCAN FM channel through

Press this key, again slight press the last/next tune for auto seek program. When found a prog -ram, it will auto play for 6 seconds then skip to

BASIC OPERATION

next one. Press any key to receive the current program.

11. Bluetooth key

1) When the mobile phone and Bluetooth conne -ctivity, the phone call, press this button, you can answer the call.
2) Click on this button to enter the Bluetooth interface, and then withdrawn from the Blue -tooth interface.

12.RADIO Radio key

Click this button to get quick access to radio interface

13. Play/pause

During playback, press play / pause【▶/II】, pause the current playback. Then click 【▶/II】 button to restore the current playback.

14. Bluetooth indication led

When the Bluetooth connection, use, this LED will light up.

15. The up tune

1) Radio mode: tap the up and search for the station;
2) Media playback mode: tap is on one, long press to rewind.

16. The next one

1) Radio mode: tap down the search for the radio;
2) Media playback mode: slight touch tap is on next one, long press is to fast forward.

17. GPS Micro SD GPS Mirco SD socket

The jack used for navigation map, and other media files using this socket is invalid.

18. Micro SD Mirco SD socket

The system supports playback of external media files, through the SD card storage media can be illustrated in this jack.

19. Bluetooth microphone

Which sent word for bluetooth, do not put up the hole, from a phone call is ineffective.

20. USB port

This machine system to support an external USB.

21.VOL+ Volume +

Press the key for the volume and.

22.VOL- Volume -

Press the key for the volume down.

23. ☀ / DIM Day/night switch-mode

According to the day and night to adjust the intensity of light and different screen intensity.

24.HOME Home key

Press the key for the return to the main menu.

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CAR AUDIO NAVIGATION SYSTEM

◆ USB Operation

The disc U of media Information, directly into the host USB interface.

Insert/ pull out USB

When need to pull out USB, exit the documents in using and pull out the USB.

Press【USB】on main option enter to play.

USB interface

After read the documents in portable disc, and DVD playing mode, please refer "DVD disc playing" for detailed operation.

PS: As with portable disc of MP3 players manu -facturers of the various brands of different standards, may lead to some USB can not play, at this time can contact the USB manufacturers.

Support 2.0 edition disc U.

Support plug-in card reader.

◆ SD Card Operation

The SD card of media information, directly into the host SD card slot, up to locked.

Insert / Pull out SD card

When need to take out SD card, exit the docu -ments in using, slight press SD card, SD card release locked states and eject automatically.

Press【SD】on main option enter to play.

SD card interface

After read SD card , and DVD playing mode, please refer "DVD disc playing" for detailed operation.

PS:

Support 2.0 edition Disc U.

Support plug-in card reader.