

User Manual



Please read the manual carefully before installation
English

Content

Standard accessories-----	1
Remote controller Operate -----	2
Faceplate Key-press Operate-----	4
Navigation Function Operate-----	5
Screen Display district -----	6
DVD Function-----	7
Radio Function Operate -----	9
Analog TV Function Operate -----	11
Digital TV Function Operate (Optional) -----	12
Bluetooth Function Operate -----	13
iPod Function Operate-----	15
AUX Function Operate-----	15
Film Function Operation-----	17
Picture Function Operatuib-----	18
Music Function Operate-----	19
Parameter Function Operate-----	19
System Setup Operate -----	21
Trouble&Disposal solution-----	27
Technology parameter-----	29
Accompanying drawing-----	(Power line ,A/V connector line)

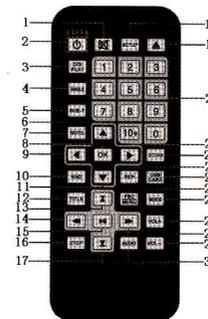
Standard Accessories

- 1、 Power Line
- 2、 AV Line
- 3、 TV antenna
- 4、 Remote controller and Battery
- 5、 Navigation antenna
- 6、 iPod , USB Line
- 7、 Installation Bracket
- 8、 User Manual

Remote Controller Operation

Under DVD Function, the remote controller's OPERATION:

- 1、 Mute. Press again mute or Volume+/Volume-- can remove Mute
- 2、 Off screen , but the power light is also illuminated
- 3、 DISPLAY, Disc display time, and left time
- 4、 Angle, Watch DVD through Multi-angle
(Must Disc Support)
- 5、 Subtitle . press this button can transfer Disc subtitle
(Must Disc Support)
- 6、 Cursor up arrow key
- 7、 Goto, Under DVD mode, Choose from one chapter to one
Chapter ,From one time to another time
- 8、 OK. Under DVD Mode, Press this button means OK.
- 9、 Cursor Shift left
- 10、 Display at random. Under DVD mode, This button is play at
Random.
- 11、 Cursor Move Down
- 12、 Title, Press this button is return to Disc Title Menu
- 13、 PREV. During played , press this button is select playing Pre-Chapter /Program .
- 14、 Backward . Under DVD Mode , press this button means backward , each time
pressing , multiple increase, According to disc format, multiple is difference.
- 15、 Pause/Play.
- 16、 Stop. Press this button is stopping playing during played .
- 17、 Next , During playing , press this button is playing Next chapter or programe .
- 18、 Setup. Set-up DVD parameter for the menu.
- 19、 Open. Control The Disk In/out.
- 20、 Numeric Button. Under DVD mode , press the number is correspond to each
chapter.
- 21、 Cursor Right shift.



- 22、 ZOOM. When playing movie , press this button is zoon in/out image
- 23、 Repeat.Press this button is selecting disc contact (chapter , programe ,section ,all) to repeat playing .
- 24、 Transfer to reading USB equipment or SD Card.
- 25、 Menu:Accoring to disc style is different,Press this button is return to disc catalogue menu and can setting up PBC on/off .
- 26、 Return . Press this button is transfer GPS function and previously function
- 27、 Volume+.
- 28、 Forward. Under DVD Mode, press this button means forward. each time pressing, multiple increase,According to disc format, multiple is difference.
- 29、 Volume --
- 30、 Language : Press this button is transfer language under DVD mode ,audio track transferred under VCD mode .

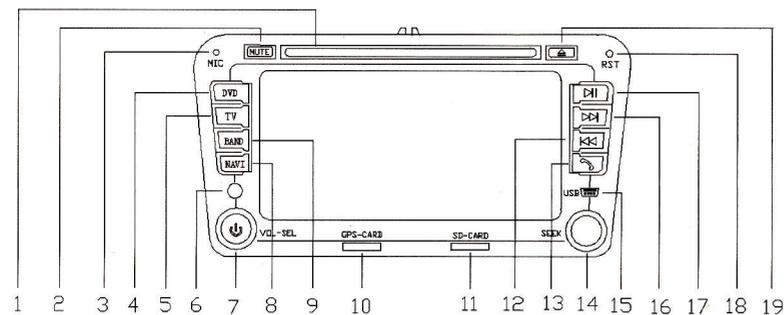
The Remote controller operation under TV function:

- 7、 Auto Search Channel 13、 Previously Channel 17、 Next Channel
- 20、 Number Key 23、 Accompanying Sound 25、 System

The remote controller operation under Radio function :

- 7、 Auto Search Channel 13、 Previously Channel 17、 Next Channel

Panel button operation



- 1、 Tape entry and exit window ,
- 2、 Mute key
- 3、 Microphone window
- 4、 DVD function
- 5、 TV function
- 6、 Telecontroller take-over window
- 7、 power/mute key (unit open state. long time press the key will close the unit, short time press the key will open the unit or close the screen back light.
- 8、 Navigation function;
- 9、 Radio function ;
- 10、 GPS map card port(TF port)
- 11、 SD port (TF port)
- 12、 Prev;
- 13、 Bluetooth function ;
- 14、 Back key ; (under DVD model with fast-forward、 backward function, under radio model with frequency fine tuning function)
- 15、 MiNiUSB interface ;
- 16、 Next ;
- 17、 Play / Pause;

18. Reretting switch. (if misoperation lead to crash,press this key to reset)

19. Tape entry and exit key.

Menu Function operate:

At any interface press the button , apper the following menu:



In sequence: NAVI、DVD、RADIO、TV、Bluetooth、IPOD function.

At any interface press the button , appear below menu:



In sequence: AUX、Movie、Photo、Music、Program、SETUP function.

Navigation Path Setup Operation

1、 Click  function icon, enter interface as picture 1 showing



(picture 1)

2、 Click icon  in the picture 1, enter interface as picture 2 showing



(picture 2)

3. Click the cursor "Storage card" in the black area from picture 2, can enter the interface as picture 3 showing.

Find out the file with map (like: iGO8.3), then select the document with suffix ".exe", click the cursor  and confirm. For example: iGO8.3.exe) Navigation path setup ok.



(picture 3)

4、 Click the cursor , then click cursor  into map interface.

Screen Display District



A: Time & Date display district

note: Click area "A", will come out Image, sound effect mode quick sets

Play MP3's music under DVD mode, image full screen, Click area "A" to exit full screen.

- B: Currently function & information display
- C: System information & volume played area
- D、F: Currently function control area
- E: Picture in Picture area

Special Operation Reminder:

- 1、 In the information area , let B area for the middle point ,Touch screen slide to right is increase volume , slide left is decrease volume .
- 2、  : Under any function mode, click screen right corner speaker icon, go to mute mode.

DVD Function Operate



-  : Touch this button, screen's upward side will display current played information (for example : Chapter,time etc OSD menu .)
-  : Press this button is returning to disc catalogue menu. No Disc situation, touch this button will come out DVD parameter Set-up menu .

-  : Cursor upward
-  : Cursor down
-  : Cursor shift left
-  : Cursor shift right
-  : Confirm button.Confirm the present operation.
-  : Press this button choose repeat playing Disc contents (Chapter,Section,All)
-  : Random played ,Under played ,Press this button is setting up for random play on/off .
-  : Touch this button is transfer Disc 's subtitle (Must Disc support)
-  : Stop .During Playing ,press this button is stopping playing.
-  : Press this button under DVD mode is transfer Language , audio track transferred under VCD mode .
-  : Play / Pause .
-  : PREV
-  : Next
-  : Backward . During Playing, press this button means backward, each time pressing,

speed increase,According to disc format, multiple is difference.

: Forward. During Playing,, press this button means forward, each time pressing, speed increase,According to disc format, multiple is difference.

: Disc eject , Press this button is Disc in/out .

Special Operation Reminder

- 1、 Touch screen picture in picture area, then will display full screen ,when you touch again ,will return to picture in picture area .
- 2、 when full screen display disc catalogue menu , can click some chapter or some programe to play directly.
- 3、 when playing MP3 and picture in picture mode click function key playing operation..
- 4、 BackZone、 Display、 EQ mode fast setup .



When click time and date area on the upper right screen ., then bring out BackZone、 Display、 EQ fast setup menu.

BackZone optional DVD、 TV、 AUX、 AUTO mode.

Display optional Bright、 Soft、 Fresh、 Standard or Custom mode.

EQ optional Jazz、 Popular、 Rock、 Classic、 Standard or Custom mode.

Radio Function operation



: Auto search channel

: FM/AM transfer.

: Half-automatically searching channel upwards.

: Half-automatically searching channel downwards

: Under RDS function, press this button can on/off transferring frequency .If currently station have frequency table ,when lower signal ,will jump to higher signal frequency

: When open the RDS,press this button can search traffic announcement information, when have traffic announcement currently ,will transfer to this station automatically .

: Press this button,can receive the liking station programme kind,,after option,it will search channel automatically

: Press to switch the stereo and mono.

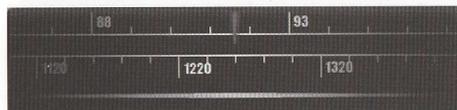
: Press this button is fine tuning currently played channel frequency (Deduct).

: Press this button is fine tuning currently played channel frequency (Increase).

: Page turning icon. Press this icon can look through all stocked channels.

Special Operation Reminder

- 1、Click **PTY**, then appear “NONE、NEWS、CURRENT AFFAIR、INFORMATION、SPORT” choose dialog box, then click “OK”. The unit will auto-research checked program style.
- 2、Click frequency measuring district then flip left/right frequency measurement zone, you can select the frequency point in need. (as following)



- 2、Long-press any station from “1—5” position, will stock the current receiving channel under the position.
- 3、Short-press any station from “1—5” position, will immediately switch receiving current station

Analog TV Function Operation:



: Press this button is transfer TV system , Successive pressing can transfer circulation (PAL/NTSC/SECAM)

: Press this button is transfer accompanying sound

: Press this button is auto search Channel and storage channel automatically

: Press this button is exit search channel

: Press this button is fine tuning currently played channel frequency (Deduct).

: Press this button is fine tuning currently played channel frequency (Increase).

: Press this button to choose previously station

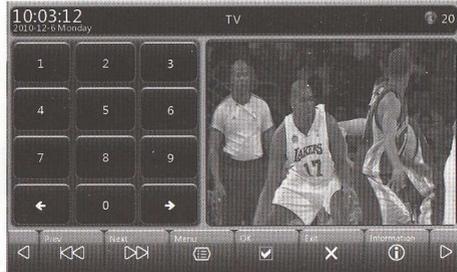
: Press this button to choose next station

Special Operation Reminder

- 1、“1—5” on the down screen appear current researched station,, click cursor  can look through all stocked stations .

- 2、click any figure key ,switch to current stocked station immediately with corresponding Sequence key. (for example : click figure 3, switch to the third station immediately..

Digital TV function operate (Optional)



: Under menu mode, Cursor upward . When playing, pressing this button choose previous channel

: Under menu mode, Cursor downward . When playing, pressing this button choose next channel .

: Menu

: Confirm key.Confirm the current operating.

: Exit

: Press the key show current channel information

: Under menu mode, cursor shift left

: Under menu mode, Cursor shift right

Bluetooth Function Operate



: Answer call/call out confirmation . When there is a coming call, press this button to answer the call .After finish dialing the number,press this button to confirm dial. (Note: When you need dial extension ,Press the number which you need dial after listening the tones

: Press this button to end up telephone talking and refused receiving a call

: Delete .Delete the numbers and sign before dialing a call

: Bluetooth auto-shift button between the unit and mobile when dialing. When it just need mobile talking, instead of unit bluetooth function , can use this button, press again , it's return to unit bluetooth function

: Pressing this button cut off bluetooth connection,dial again will re-connect.

Special operate note

- 1、 Press figure key to dial , press  is cancel one number , if pressing hang-up button , is deleting all number .
- 2、 Telephone No in the phone record, can touch the screen to flip over the telephone No
- 3、 Touch(Double Click)the telephone No in the phone record , telephone No will appear

currently displayed area, then you can press answer call/call out button to dial the telephone No .

- Our unit is pairing with mobile automatically. When system displaying pair ok, mobile start connecting, password is "1234", When system played connecting is ok,  showed on the upper right screen) will run bluetooth function (Note: Mobile details operate, please take the mobile bluetooth operation as reference)
- A coming calling at any function interface, it will appear coming Phone No., Answer call ,Hang up keys appearing on the down screen. Meanwhile, voice form loud-speaker will auto-shift to Bluetooth coming call sound.



Bluetooth Music play



Connecting mobile Bluetooth and unit, then click cursor , enter playing

Bluetooth music ;click cursor , , , , can select Prev, Play/Pause, Next, Stop.

: no utility.

IPOD Function operate



:Back to menu.

: Prev

: Next

: Play/Pause

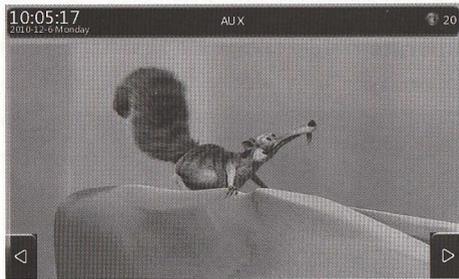
: IPOD menu cursor shift up

: IPOD menu cursor shift down

Special operate note :

- 1、 When inserting iPod ,right area of the screen will come out iPod draw , it's means iPod connecting successfully .

AUX Function Operation



Special operate note :

- 1、 Touch the screen 's Picture in Picture area,the interface will transfer into full screen showing; when you touch again , will return to picture in picture function

Movie Function Operation



: Play / Pause.Shift key playing/pause when playing.

: PREV

: NEXT.

: Stop

: Catalogue/List transfer key.

: List addition。 Press the button can add the video file from storage equipment into playing list.

Special operate note :

- 1、 Directly click the file name in the playing list ,then can play directly.
- 2、 When over 5 files from the playing list ,long-press list area, then can see other files by flipping upward or downward
- 3、 Add document operation as following picture ,click cursor ,again click the right file from storage equipment, find out the video document's position, then click cursor ,all selected or single click the video document you require to add. The file will

appear at the left list locality; after finished, click the cursor  close the file window. If

there is no video document from the opening file, click cursor  return to prev.



Picture Function Operation



: Play/Pause slide.

: Rotation. Can rotate the picture in clockwise sense

: Picture Can setup for start picture.

: Picture can setup for background of window. (note: picture format:: JPG, .BMP, .PNG, resolution greater than 800*480 file).

Special Operate reminder:

1、 Refer to film function and special operation cue when other function key and film function are same.

Music Function Operation



: Cycle/Random Can select single circulating, cycle playing or random playing.

Special operate reminder:

1、 Refer to film function and special operation cue when other function key and film function are same.

WiFi / 3G Program Function Operate



: After successive network between WiFi and 3G, click the key can enter net page.

: Browse Word document with storage equipment status.

: Browse Excel document with storage equipment status.

: Browse PDF document with storage equipment status.

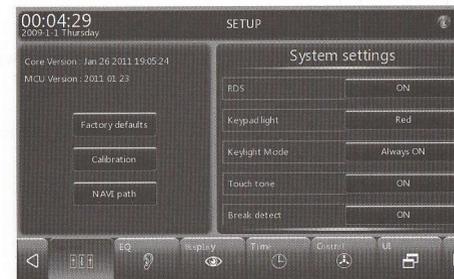
Special operate note:

- 1、3G: Insert 3G adapter supported by this unit, input relative information at left hand(User name、Password、APN、Phone number),then click the down icon” connect”(Detailed status pls consult operator)
- 2、WiFi: Insert WiFi adapter supported by the unit,will show WiFi adapter’s name on the upper right place. When WiFi auto research wireless network and appear on the down place, select one of them and click confirm connecting.
- 3、Connect 3G,on the upper right screen corner will show the cursor .After WiFi connecting, also show the cursor  in the same position.
- 4、Add the program which can work under Window CE6.0. Method: Long-press menu vacant press will appear “Storage card” file, click the file to find out required programme “exe”document, pitch on and click 

Icon Determinacy



System Setup Operate



Factory defaults: click the button, will recover the unit into factory setup, machine then re-start.

Calibration: Press the button into screen collation image,aim to the cross cursor almost 2 seconds with penpoint or some other soft material,cross cursor will move to one corner,it’s ok with the same operation

NAVI path: Setup to map path,special operation pls refer to navigation path setup operation

System setup content following:

Language—Setup to menu language.

Map status—Adjust the navigation into closed status or status before closing memory ACC shutting up, when open the power every time.

Region—FM/AM Tuner Frequency Range can set up as China,American1,American2, Japan,Russia.

RDS—On-off selection to radio’s RDS information.

Open: RDS function starting.

Shut: RDS relative function key without this utility

Keypad Light: color options of key-press back light (Color option:red , green, blue, deluxe).

Keypad Light Mode: Can always setup open ,close automatically.

Touch tone: Can set up On or Off.

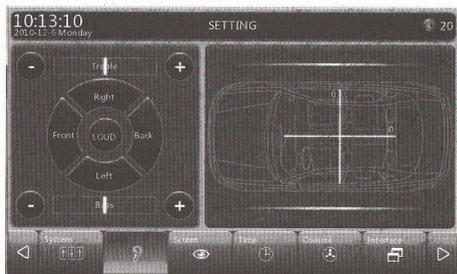
Break detect: Can set up On or Off.

Open: Connect handbrake rightly as per specification requires, or there will be no image showing when starting car.

Shut: Whether connect handbrake cable or not, main unit playing image will be all along showing normally when starting car.

Special operation cue: Pull up or down when long-pressing any zone in the system setup district.

Sound Effect Setup Operation



Voice Effect Setup: Set up to Alt, Woof, Loudness

Sound Field Orientation: Adjusting sound field orientation toward FRONT、REAR、L、R

Note: Alerted parameter will automatically save into defined mode.

Image Setup

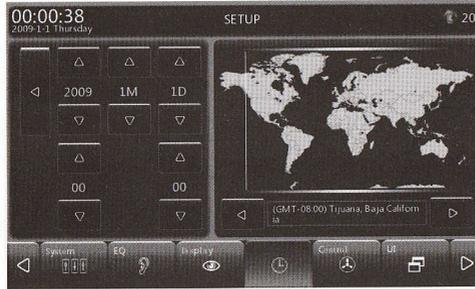


Image setup: brightness ,contrast, saturation, color setting-up.

Color setup: Setup to the background color (Select color you need and click confirm button, impact as following picture. Click default to recover the background under system default.



Time setup operation



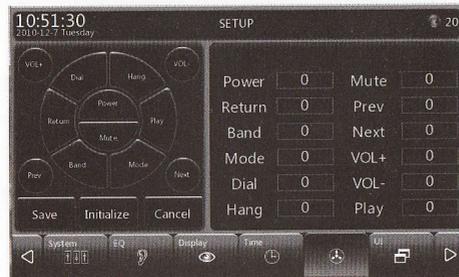
Time Date setup: Can directly set up time and date on the upper right area on screen.

(Year, Month, Day, Hour, Minute)

Left key ,modify year, month, day in sequence

Right key , used for setting up time district.

Controlling setup



Steering Wheel Controlling Study Operation:

First click the left key, for: **Power** , then press the on-off key on the steering

wheel ,here appear the key's ID data from right on-off list. Such as: **Power 155** ,

re-click down left stockage button for saving .Operate the key from steering wheel, can achieve controlling host function. Other keys special operating method are the same with the previous.

Note: If setup faulty, click cancel or start button with deleting the study key. Re-press the corresponding key on the steering wheel and re-study.

Interface setup :



LHD

RHD

Theme setup: 1、 Select left/ hand, also put the controlling button on the left/right hand.

2、 Click the theme picture under subject setup ,choose your favorite theme style in the file of storage equipment. (file with suffix “ui”), then click

cursor and confirm it.



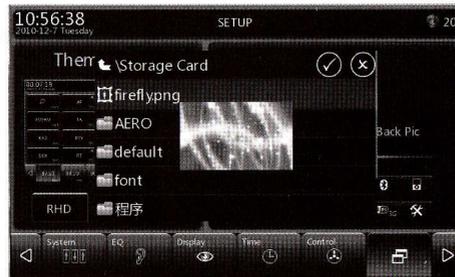
LOGO: Choose any Volvo or Logo you like ,click confirm key. It will show the LOGO you selected when turning on next time.(Picture format: bmp format)

Note: Setup method can refer to theme setup.



Back Pic: Can set up your loved picture as desktop background. (Picture format: png format)

Note: Setup method can refer to theme setup.



Menu Order: As per your hobby, process facultative exchange aim to every function place from main menu.

Way: Long press the function cursor your require, then pull it to you wanted place and release ,at this very moment the mail menu function's place have been exchanged.

Trouble&Disposal solution

Sometime those phenomenons which are considered as trouble, is caused by tiny operation or wiring misplay. Please recheck with the following items list before repairing:

1. Power Supply is turned off

Reason: blowout

Solution: after confirming whether the lead has short circuit or not, replace fuse which has the same rating.

2. Press button, can't operate

Reason: microprocessor has trouble

solution: press "restoration" button on the device

3. No TV/Video image display

Reason: the device doesn't connect with detent detector switch or without braking parking detent

solution: connecting the device with detent detector switch according to that connecting demo picture. For the sake of safety, can't display TV/Video image when running car. After braking parking detent, the TV/Video image will appear.

4. Darker screen

Reason: the unit is located at the lower temperature place

solution: If is turning on power supply for the first time, the display temperature will decline and screen will be darker because of LCD screen speciality. Please wait for a moment after the power supply is on, the LCD screen temperature will ascend and recur to normal brightness.

5. AM/FM radiogram reception is not good or souffle

Reason: the TV antenna and car radiogram antenna are clear

solution: keep the TV antenna and car radiogram antenna be far

6. Remote is not available

Reason: the remote doesn't aim at reception inductor of remote or the remote battery is used up

solution: please assure the remote can aim at reception inductor of remote or replace the same type new battery

7. No voice or undertone

Reason: the noise switch is off or the mute is on or Left/Right, Front/Behind balance is setted as one side;

Input/Output lead or wire harness is connected wrong

solution: turn on noise switch or close mute or adjust balance

connecting with Input/Output lead or wire harness exactly refer to connecting demo picture

8. Bad timbre

Reason: loudspeaker lead is pressed by screw from two sides of car or loudspeaker lead is used common

solution: checking loudspeaker lead or connecting with loudspeaker output jack respective

9. When ignition switch is off, the storage content disappear

Reason: wrong connecting with storage battery or wrong connecting ignition cable with battery cable

solution: exactly connecting wire harness demo picture

10. Reception quality of radio is bad

Reason: without extending car antenna or without join antenna power supply lead

solution: extending antenna or exactly connecting wire harness

11. Inflexion

Reason: CD has scathe or smudge

solution: replace CD or clean up smudge

12. VCD Menu can't play

Reason: VCD is with playback control exceptant

solution: VCD which is with playback control exceptant can't be played via choosing menu

13. No subtitle

Reason: The DVD Disk has no subtitle per se

solution: The DVD Disk without subtitle can't display subtitle

14. Can't set initial sound language and subtitle language

Reason: playing DVD Disk doesn't store subtitle language of selective sound language

solution: replace DVD Disk which has been stored selective sound language and subtitle language

Technology parameter

If Specs are changed, forgive us won't further notice.

DVD Part

D/A conversion: 24 Bit

Decoder: linear PCM/Dolbydigital/dats/MP3/WMA

Jouncy tolerance: under measure limit

Frequency response: (sampling frequency: 96K)-20-44KHz

(sampling frequency: 48K)-20- 22KHz

(sampling frequency: 41.4K)-20- 22KHz

Total Harmonic Distortion (1K) : under 0. 10%

Signal-to-Noise: 100dB (DVD96K)

Dynamic range: 100dB (DVD96K)

CD format: DVD Video/Video CD/CD DA

Ration Bit Number: 16/20/24 Bit

TV Tuner Part

Reception System: PAL B/G、I、DK、NTSC M/N、SECAM B/G、DK

Frequency compound: locked loop road

TV Reception: full supplement TV channel

Deposited Broadcasting Station: 99

Sampling Frequency: 44. 1kHz/48kHz/96kHz

FM Tuner Part

Available Sensitivity (S/N=30 dB): 10 dBu

Frequency Response (±3. 0dB): 100Hz- 10KHz

Signal-to-Noise (dB)(MONO): 55dB (STEREO): 45dB

Track Abrupton: hyper- 24dB(75kHz,98.1MHz)

Deposited Broadcasting Station: 50

AM Tuner Part

Available Sensitivity (S/N=20dB): 25dBu

Deposited Broadcasting Station: 50

Image Part

Exterior Video Input Color System: NTSC/PAL/SECAM

Exterior Video Input Level (RCA jack): 1V_{p-p}/75Ω

Exterior Audio Input Level (RCA jack): 1V/22k

Audio Output (simulation audio): 2.0V(rms)

Video Output: 1.0V(P-P), 75Ω

Audio Part

Most Power Consumption (Front & Behind): 45W×4

Full Bandwidth Power Consumption (Front & Behind): (under THD1%) 18W×4

Beforehand Output Level (v): 2V/10kΩ

Beforehand Output Impedance: ≤600Ω

Monitor Part

Picture Size: 6.95 Inch

Display System: TFT LCD panel

Pixel: (800H×480V×RGB)
Pixel Array: RGB zonal array
Available Pixel: 99.9%
Background Illumination: LED

Tone

Woof: 100Hz±10dB
Alt: 10kHz±10dB

Common

Operation Voltage: 14. 4v(11v-16v)
Most Electric Current Consumption: 15A
Size: 2DIN
Working Temperature Range: -10℃~60℃
Storage Temperature Range: -20℃~85℃
Weight: 3kg

Remarks: FM/AM Tuner Frequency Range as follows:

China: FM 87.5 MHz~108.0MHz (100 kHz stepping)
AM 531 kHz~1602 KHz (9 kHz stepping)

Europe: FM 87.5 MHz~108.0MHz (50 kHz stepping)
AM 531 kHz~1602 KHz (9 kHz pecking)

America 1: FM 87.5 MHz~107.9 MHz (200 kHz stepping)
AM 530 KHz~1710KHz (10 kHz pecking)

America 2: FM87.5 MHz~107.9 MHz (100 kHz stepping)
AM 530 KHz~ 1710 KHz (10 kHz stepping)

Japan: FM 76.0 MHz~90.0MHz (50 kHz stepping)
AM 531 kHz~1629 KHz (9 kHz stepping)

Russia: FM 64.5 MHz~73.0MHz (50 kHz stepping)
AM 531 kHz~1602 KHz (9 kHz stepping)

Cue:

Our company will upgrade or update product function constantly, if actual operation don't accord with User Manual, forgiving us won't further notice, please be subject to actual function of this unit!

**Accompanying drawing:
Power Line, A/V Line Connecting Drawing**

Notice:

Our product is suitable for negative grounded DC power system

rated voltage:12V rated current:15A

