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

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/Programme.
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 programme.
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.
22. ZOOM. When playing movie, press this button is zoom in/out image.
23. Repeat. Press this button is selecting disc content (chapter, programme, section, all) to repeat playing.
24. Transfer to reading USB equipment or SD Card.
25. Menu: According 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

The remote controller operation under Radio function:
7. Auto Search Channel 13. Previously Channel 17. Next Channel

Panel button operation

1. Windows for infrared signal from remote controller receiving
2. Disk eject. Disc In/out.
3. Screen upward angle adjust
4. Screen downward angle adjust
5. Volume--
6. Volume +
7. Return: Press this button is transfer between GPS and previously function.
8. Power on/off: (Turn on the unit, it’s off when press long time, it’s closed screen when short-time press.)
9. Reset. If any operation problem leading to system halted, please press reset
10. Micphone

Menu Function operate:
At any interface press the button: appear 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

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

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.

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 button, screen's upward side will display current played information (for example: Chapter, time, etc. OSD menu)
- Press this button to return to disc catalogue menu. No Disc situation, touch this button to exit DVD parameter Set-up menu.
- Cursor upward
- Cursor downward
- Cursor shift left
- Cursor shift right
- Confirm button: Confirm the present operation.
- Press this button to choose repeat playing Disc contents (Chapter, Section, All)
- Random play, Under played, Press this button to set up random play on/off

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**Special Operation Reminder**

1. Touch button, this button is transfer Disc's subtitle (Must Disc support)
2. Stop. During Playing, press this button to stop playing.
3. Press this button to transfer Language, audio track transferred under VCD mode.
4. Play / Pause
5. PREV
6. Next
7. Backward. During Playing, press this button means backward. Each time pressing, speed increase, according to disc format, multiple is different.
8. Forward. During Playing, press this button means forward. Each time pressing, speed increase, according to disc format, multiple is different.
9. Disc eject, Press this button to Disc in/out.

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 program to play directly.
3. When playing MP3 and picture in picture mode click function key playing operation.
Radio Function operation

- AF: 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.
- TA: When open the RDS, press this button can search traffic announcement information, when have traffic announcement currently, will transfer to this station automatically.
- PTY: Press this button, can receive the liking station programme kind, after option, it will search channel automatically.
- CD: 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 store the current receiving channel under the position.
3. Short-press any station from "1—5" position, will immediately switch to the 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 store 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 the 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.
Bluetooth Function Operate

1. Answer call/callout 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)

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

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

4. 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

5. 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

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.

4. 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)

5. 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 load-speaker will auto-shift to Bluetooth coming call sound.

**Bluetooth Music play**
Connecting mobile Bluetooth and unit, then click cursor music 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
P: IPOD menu cursor shift up
D: 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

1. Play / Pause. Shift key playing/pause when playing.
2. PREV
3. NEXT
4. Stop
5. Catalogue/List transfer key.
6. 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

1. Play/Pause slide.
2. Rotation. Can rotate the picture in clockwise sense.
3. Picture Can setup for start picture.
4. Picture can setup for background of window. (note: picture format: JPG, BMP, PNG, resolution greater than 800*480 file).
Special Operate remainder:
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

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

2. Browse Word 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 "3G". After WiFi connecting, also show the cursor "WiFi" 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 default: 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.

NAV1 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, American, American 2, 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: Keypad background light color selecting (Universal machine without the function).

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: 3.55.
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**

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 "ut"). Then click cursor and confirm it.

**RHD**

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 main menu function’s place have been exchanged.
Trouble & Disposal solution

Sometime those phenomena 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 specialty. 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/Dolby Digital/MP3/WMA
- Jounce tolerance: under measure limit
- Frequency response: (sampling frequency: 96K)-20-44KHz
  (sampling frequency: 48K)-20-22KHz
  (sampling frequency: 44.1K)-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
- Ratio Bit Number: 16/20/24 Bit

**TV Tuner Part**
- Reception System: PAL B/G, 1, 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 dB): 100Hz-10KHz
- Track Abortion: hyper-24dB(75kHz/98.1kHz)
- 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): 1Vp-p/75Ω
- Exterior Audio Input Level (RCA jack): 1V/22k
- Audio Output (simulation audio): 2.0V(rms)
- Video Output: 1.0V(P-P), 75Ω

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**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(1v-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~108.0 MHz (100 kHz stepping)
  AM 531 kHz~1602 KHz (9 kHz stepping)
- Europe: FM 87.5 MHz~108.0 MHz (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: FM 87.5 MHz~107.9 MHz (100 kHz stepping)
  AM 530 KHz~1710KHz (10 kHz stepping)
- Japan: FM 76.0 MHz~90.0 MHz (50 kHz stepping)
  AM 531 kHz~1629 KHz (9 kHz stepping)
- Russia: FM 64.5 MHz~73.0 MHz (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

EXT. AMP: YELLOW WHITE
ILLUM: ORANGE WHITE
TV. AMP: WHITE RED
ACC: RED
BRAKE: BLUE WHITE
GND: BLACK
KEYPAD STUDY IO: PINK

POWER

BLUE
GREEN
GREEN BLACK WHITE
WHITE-BLACK

RADIO, ANT
REAR-L
FRONT-L
FRONT-R
REAR-R
BATS

WHITE-AUX AUDIO OUT (L)
RED-AUX AUDIO OUT (R)

WHITE-AUX IN (L)
RED-AUX IN (R)

YELLOW-CAMERA IN
YELLOW-AUX VIDEO IN
YELLOW-AUX AUDIO IN

IPCD
USB

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