

CASKA®

# USER'S MANUAL



**CA3020**



# Safety caution

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This equipment is only in use for vehicles with 12V grounded DC. Please don't install the equipment in the any large truck with 24V grounded DC directly to avoid damaging it.



Never operate the machine when driving. To avoid violating the traffic law, the driver please do not watch programs and operate the machine when driving to avoid affecting safe driving and causing traffic accidents.



For safety and to guarantee normal operation of the product, please let professional workers who sale the product to install it and never disassemble or repair the machine by yourself to avoid damaging it and causing accidents.



Please do not place the product in damp environment or water to avoid electric shock, damage and fire caused by short circuits.



Since the mechanical drive parts of display screen of the product have full-automatic and precision drive parts, please do not push, pull or rotate the machine or beat the TFT display screen violently to prevent damaging the product.



The Car Backing Monitoring Function of the product is only used to assist to back the car. Our company has no responsibility to any accident due to car backing.



①Manufactured under license from Dolby Laboratories;

②“Dolby” and the “double-d” symbol are trademarks of Dolby Laboratories.

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Please read this manual carefully before using this product and properly keep the manual for future use.

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## NOTE

In order to use the product correctly and safely, please read this manual carefully.  
Specification and design due to technical improvement are subject to variation without notice!

## Brief introduction

Thanks very much for your purchase of the high-quality on-board video and audio recreation system made by our company. This product is a new model of multi-functional video and audio recreation system researched, developed and designed by our company especially for Toyota Camry (TOYOTA, CAMRY 200E, 200G, 240G), which is integrated with DVD video and audio for recreation, Radio, back sight, radar range finding. The radio applies highly sensitive receiving module, which can listen to local station that you can get to know global trends whenever you wish. We adopt special on-board suction DVD cassette core mechanism for the DVD part, which can play DVD/VCD/CD/MP3/WMA/JPEG/MPEG4 disc. it is equipped with a professional internal high-fidelity automotive power amplifier. Bluetooth handfree communication function is provided. If your cell-phone has Bluetooth function, you can build point-to-point connection with the host unit. It has outboard USB port, when you insert U-disc, it can skim and play the audio and picture in the U-disc. When connect to GPS module, it can execute navigation operation. In navigation mode you also can enjoy music. It can install external TV box, disc changer, radar/camera, and also can install 4-channel and 5.1-channel audio and the optional output port that are convenient to connecting exterior equipment. We adopt imported 7 inches, 16:9, and high definition true color LCD for the display part, and use advanced microprocessor technology to carefully optimize and design the built-in counter interference circuit. It has many features including high resolution, free of flashing, low power consumption, reliable property, environmental. Installing panel of the main unit well matches the instrument panel of this car model, and decorative frame is not needed when installing, with the fuselage suitable for standard double DIN installation.

Professional design for on board electronic products and all operations are intellectualized and human oriented. It has OSD menu display and can be operated by panel buttons, touch screen and full-function infrared remote controller, has friendly man-machine conversation. All the adjusted parameters can memorized and restored automatically, providing you with the easiness and convenience you wanted. Please read this manual carefully for correct installation and operation of this product. Wish our effect can give you more relaxation and happiness!



Remark: the above symbol indicates that this product hasn't any harmful material or elements, it is environmental and recyclable, and shouldn't be littered at random.

# Product features

## 1. Product specifications

### System parameters

Item	Specification
Working voltage	DC 11V~14V
Working current	MAX 15 A
Standby current	<25mA
Working temperature	-20℃ ~ 60 ℃
Video system	Auto PAL or NTSC
Screen dimensions	154.08mm (W) ×86.58mm (H)
Weight	2.7Kg

### Function parameters

Radio parameters		
Range of frequency		FM:87.5MHz~108MHz; AM:522KHz~1620KHz
Turning mode		Phase locked loop frequency synthesis turning
Display mode		TFT panel display or OSD
Memory capacity		16 FM stations; 8 AM stations
Search mode		Automatic/manual
Built-in DVD parameters		
Video output		1±0.2Vp-p (75Ω)
Disc format		Diametar 12cm
Disc compatible		DVD/VCD/CD/MP3/WMA/JPEG/MPGE4
Amplifier parameters		
Test voltage		13.8V
Max output power		4×45W
Speaker resistance		8Ω (4—8Ω could be accepted)
Audio parameters		
Channel imbalance		≤2dB
Separation		≥45dB
Frequency response		20Hz~20KHz(±3dB)
Tone control	Bass	100Hz±7dB
	Mid	1KHz±7dB
	Treble	10KHz±7dB

disc changer parameters(Optional)	
Power voltage	DC 11~15V
CDC capacity	For 6-disc product(only for our company products)
Disc format	Diameter 12cm
Video system	PAL or NTSC

## 2. Product functions

Built-in functions:	RADIO, DVD player and high fidelity amplifier.
DVD player:	It could play DVD/VCD/CD/MP3/WMA/JPEG/MPGE4 disc.
Radio receiving:	High sensitive AM/FM receiving, could restore 24 stations.
Display screen:	Adopt 7 inch fire-new 16:9 TFT high definition LCD.
Touch screen:	It reduces visible buttons and increases friendliness of man-machine dialogue.
Bluetooth handfree:	The function of communicate by bluetooth.
USB port:	It support USB 1.1 and able to play MP3,WMA audio and skim picture.
Navigation function:	it is an intelligent system that can work out the best driving route, and lead the driver to the destination correctly by announcing names of roads and traffic signs, and displaying high precision pictures in the whole course, according to the destination set by user
Function of listening and navigation:	You can enjoy music as usual when there is no navigation voice prompt so as to make your travel more comfortable and more joyful!
Writing function in navigation:	In navigation status, you can input and search the destination by writing on the touch-sensitive screen so the operation is more convenient and faster.
Steering wheel control:	You can control the car by the steering wheel of the car while making no change of the steering wheel.
Optional function:	The 6-disc DVD changer and TV box of our company(one of two).
Car backing display	You can observe the backing condition when you are backing the car by connecting the Car Backing lens.
Car backing radar:	Connect with the car backing radar, the distance detected by sensor is displayed on the TFT high definition LCD, so we can view car-backing status more directly.
Display system:	Auto PAL or NTSC, wide application range, highly compatible.
Menu function:	All operations have OSD menu instruction.
Remote function:	Full function remote operation.
Auto memory:	All the set parameters can be memorized and restored automatically.
Signal selection:	AV input/output, convenient external signals connection.
BBE sound effect processing function:	With BBE sound effect processing function.
Audio output port:	It has 4 channel and 5.1 channel audio output ports, compatible with the outside amplifier.
Light detection:	Automatically adjust brightness of the screen by detect light intensity.(it is available when set the "ABL" as "on" in system setup )
Video mode:	There is standard, bright, custom and soft video mode for selection.
Audio mode:	There is SAP, DSP and BBE audio mode for selection and adjustment.
Black srceen:	The function is specially set up for prevent intensive light glaring and hindering of normal driving at night.

# System Installation

## 1. Installation Precaution

- ◆ This product is specially designed for Toyota Camry. For use on other vehicles, please use power adapter or consult the distributor.

To avoid short-circuit, it is suggested that the negative pole of battery be disconnected before installation.

## 2. Host Unit Installation

- ◆ Take out the CD main unit and the air conditioner indicating part of the car.
- ◆ Remove the left and right supporting rack and buckles of the CD main unit of the car, and keep them well with bolts.
- ◆ Disconnect the CD main unit and air conditioner indicating part of the car in inverse direction.
- ◆ Connect the air conditioner indicating part with this main unit, install the original left and right supporting rack and buckles to this main unit according to corresponding holes, and then fix them by bolts of the car and push it in.
- ◆ Connect all the connecting wire of host unit according to the system connecting diagram.

*NOTE: Be careful not to damage or smear the dashboard.*

## 3. System Connection

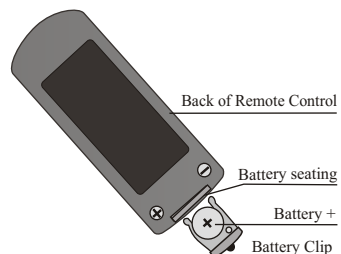
- ◆ Connect the power line of the sound box and CA3020 steering wheel cable.
- ◆ Connect car backing cord(BACK) to backing switch or car backing light circuit (for 12V only).
- ◆ Connect corresponding wires of the accessories if there's any.
- ◆ Connect AV-IN/OUT and 4channel output line
 

Video input: V IN	Video output: V OUT
AV audio left input: AL IN	AV audio right input: AR IN
Front left audio output: FL OUT	Front right audio output: FR OUT
Power amplifier control output line AMP-C	
- ◆ Connect 5.1 audio-video output wire
 

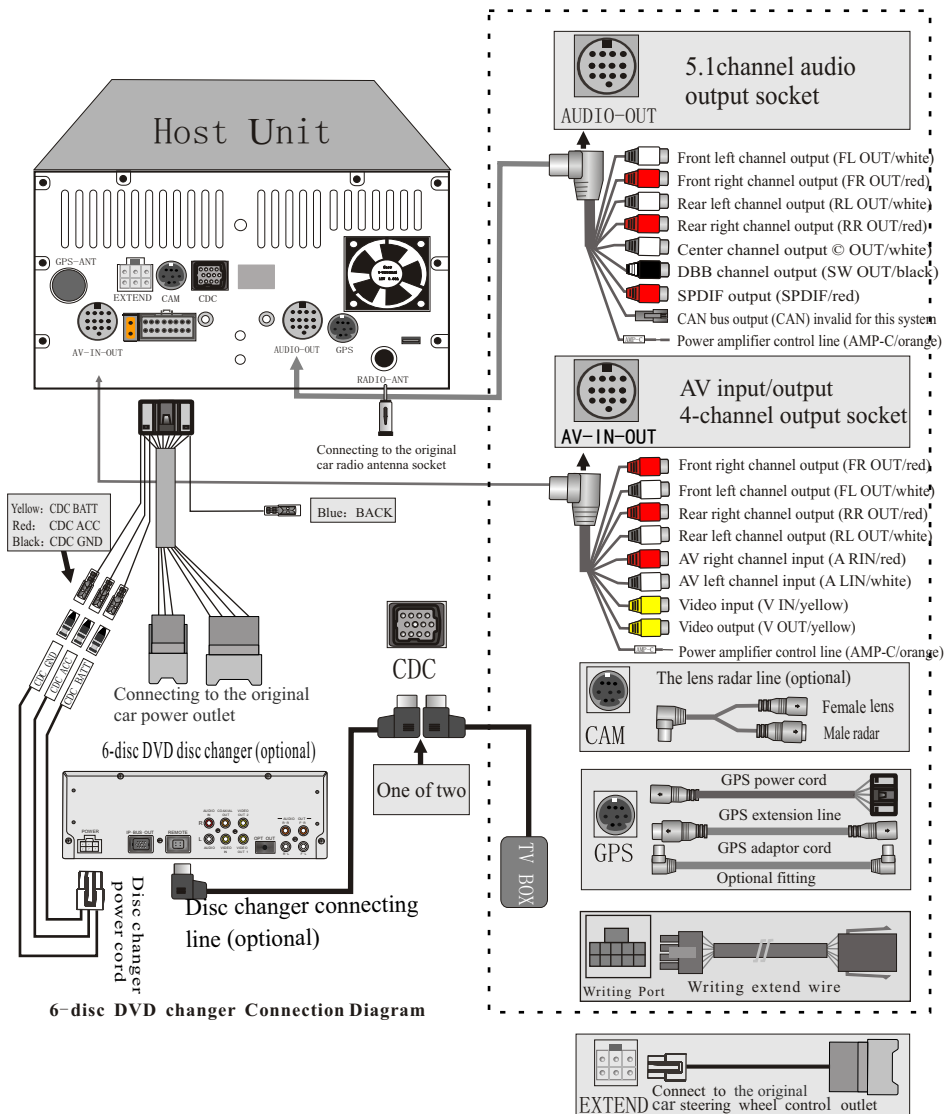
Front left audio output: FL OUT	Front right audio output: FR OUT
Rear left audio output: RL OUT	Rear right audio output: RR OUT
Centre channel output :C OUT	SW output: SW OUT
Power amplifier control output line AMP-C	
- Co-axial audio frequency output :SPDIF
- CAN bus-out: CAN (invalid for this player)
- ◆ Make sure that all connections is correct, and coordinate all the cords for easy installation.

## 3.3 Battery Replacement

- ◇ Take out the battery seating, press and hold the clip, and pull the battery seating out.
- ◇ Replace the battery, place the battery into the battery seating with positive (+) pole facing upward.
- ◇ Insert the battery seating, and push it into the original position.



## 5. System Connection Diagram



- ◇ To make the system functions the most perfect, please be strict to connect the wires according to the system connecting diagram.
- ◇ To prevent from short-circuit, please cover the audio of the host unit and the video plug insulation lag when they have not been used.



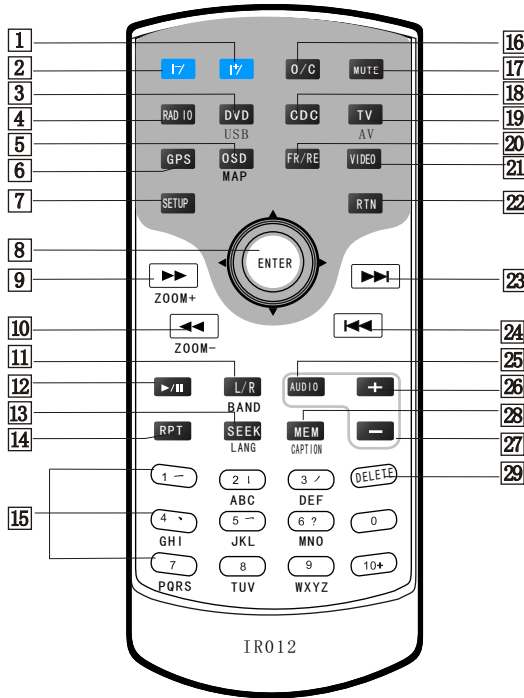
## Description of button function



Num	Button	Description of buttons function
①		Press this key to load/eject discs.
②	<b>Right Knob</b> POWER VOLUME	Press this knob vertically turn on/off the host, rotate it regulate volume.
③	<b>MUTE</b>	Turn on/off volume.
④	<b>SEEK /&gt;</b>	1. In RADIO status, press it to select previous/next station.
⑤	<b>TRACK /&lt;</b>	2. In disc playing status, press it for a short time to select next/previous track for play; Press and hold fast forward/backward key to play the current music at times speed, and press this key again for a short time to play music normally.
⑥	<b>MODE</b>	Press this button can switch video mode(except the RADIO mode).
⑦	<b>SD card port</b>	The port that used for connecting SD card with host unit.
⑧	<b>Photosensitive Window</b>	When you open the photosensitive setup, the machine will regulate the screen luminance automatically by sensing the luminance of outside light through this window.
⑨	<b>Remote window</b>	The window that accept the signal of remote control.
⑩	<b>USB Port</b>	Connect to external U-disc.
⑪	<b>DISP</b>	Turn on/off display screen.
⑫	<b>NAV</b>	Enter /exit navigation mode.
⑬	<b>SCAN</b>	1. In radio status, press it once to browse and play; select the channel and press it again to stay at the current channel. 2. In TV status, press it to search and store station automatically. 3. In disc playing status, press it for a short time to turn on playing information display; press it for a long time to switch the captions.
⑭	<b>RADIO</b>	1. Press this key to switch to radio status from other status. 2. In radio status, press it repeatedly to switch band among FM1/FM2/AM in turn.
⑮	<b>Right knob</b> TUNE FILE	1. In RADIO, TV status, turn it to fine tune the station; 2. In navigation status, turn it to move the map up/down; 3. In disc playing status, turn this knob up/down to select and play music continuously. 4. To set up menu interface, turn this button to select menu entries up/down; press it vertically and turn to change parameters; and press it vertically and turn again to select menu entries over again. 5. In non-menu interface, press the button vertically to select sound effect and turn to regulate the sound effect.

# Basic operation

16	<b>Reset Hole</b>	Press this key and the system setup will return to the factory setup.
17	<b>DVD/USB</b>	1. Press this key switch to DVD status from other status. 2. In DVD status, press it repeatedly to switch the mode among USB /SD/DVD mode in turn.
18	<b>MIC input port</b>	This is the window used for voice communication when using the Bluetooth handfree function.



Num	Button	Description of button function
1		The key is disable in this machine.
2		The key is disable in this machine.
3	<b>DVD/USB</b>	1.Switch to DVD status in any status. 2.In DVD status, press it repeatedly to switch the mode among USB/SD/DVD mode in turn.
4	<b>RADIO</b>	Switch to RADIO status.
5	<b>OSD/MAP</b>	1.In DVD or CDC status, turn on playing information display; 2.In navigation status, switch menu between the map and current place.
6	<b>GPS</b>	1. Select navigation status; 2.Press this key in navigation status can enter navigation primary menu.
7	<b>SET UP</b>	Turn on/off the setup menu.

8	◀ ▶	1. In RADIO status, select previous/next station for play; 2. Fast forward in CDC, DVD status; 3. Manual fine tuning in TV status; 4. In menu setting status, adjust parameters.
	▲ ▼	1. Manual fine tuning in RADIO status; 2. In TV status, select previous/next station for play; 3. In CDC, DVD status, select previous/next track or chapter; 4. In menu setting status, select set menu item.
	ENTER	1. press it vertically as function confirm key; 2. In the fast forward/rewind multiplication speed play status, press it vertically can return to normal status.
9	▶▶	1. In RADIO status, search high frequency station semi-automatically; 2. Fast forward in CDC, DVD status; 3. In navigation status is magnifying map function.
10	◀◀	1. In RADIO status, search low frequency station semi-automatically; 2. Fast backward in CDC, DVD status; 3. In navigation status is to minimize the map.
11	L/R BAND	1. In RADIO status, switch band among FM1, FM2 and AM in turn; 2. Switch sound channels under VCD playing disc playing; 3. Switch the language of the disc under DVD discs playing. (needing disc backing)
12	▶/II	1. During disc playing, switch status between play and pause; 2. In RADIO status, press it can input frequency directly, then press it again to confirm; 3. Select different input methods in navigation status.
13	SEEK/LANG	1. In TV and RADIO status, search station automatically; 2. Switch language of the disc in CDC, DVD status (needing disc backing).
14	RPT	In CDC, DVD status, repeat single track or all the tracks in the disc.
15	Number button	1. During DVD playing, select track directly; 2. When inputting characters in navigation status, you can use input method to do it. 3. In disk-changer playing status, press 1~6 keys to select disks directly, press 7 to open DVD setup menu and press 8 or 9 key to select disks up/down. 4. Select station directly in TV and RADIO status.
16	O/C	The function of this button is disable in this machine.
17	MUTE	Turn on/off volume.
18	CDC	Select CDC function when connect with DVD changer.
19	TV/AV	Select TV/AV function (It is valid when connect with external TV box or AV signal).
20	FR/RE	The function of this button is disable in this machine.
21	VIDEO	Press it select displaying modes including bright, standard, custom and soft.
22	RTN	1. During disc playing, return to main menu; 2. Return to map display menu as the main menu of navigation is turn on.
23	▶▶	1. Select the next station in RADIO/TV status; 2. In CDC, DVD status, select next track/chapter.
24	◀◀	1. Select the previous station in RADIO/TV status; 2. In CDC, DVD status, select previous track/chapter.
25	AUDIO	Select volume among BASS, MID, TREBLE and VOLUME, and press "+" "-" to adjust the parameter.
26	+	Increase volume.
27	-	Reduce volume.
28	MEM/CAPTION	1. Store the station in the RADIO status; 2. Switch subtitle in DVD, CDC status (needing disc backing).
29	DELETE	Delete the words in the navigation status.

#### 4. 4 The Descripti on of Buttons of Steering Wheel Control (optional)

Mode button: Press MODE button to switch CDC(TV)/RADIO/DVD/AV mode in turn.

"↶"button A: At CDC or DVD mode, press it to select the previous track.

B: At RADIO mode, press it to select the previous station.

C: At CDC mode, press and hold it to select disc.

D: At DVD mode, press and hold it to select fast forward.

E: At RADIO mode, press and hold it to search the station the higher frequency.

" "button

A: At CDC or DVD mode, press it to select the next track.

B\At RADIO mode, press it to select next station.

C: At CDC mode, press and hold it to select disc.

D: At DVD mode, press and hold it to select fast backward.

E: At RADIO mode, press and hold it to search the to the lower frequency station.

"-" button: press it to reduce the volume.

"+" button: press it to increase the volume.

### Turn On/Off The Host

- ◆ At the standby mode, press the left knob vertically and then the display screen will turn on automatically.
- ◆ When the host unit is started, press the left knob vertically and then the host unit will be switched into standby status.
- ◆ At the normal working mode of the screen, touch the touch screen gently to open the function of touch screen menu.
- ◆ The host unit will shut off automatically when the vehicle key is removed.



### Black Function

- ◆ When the host unit is started, press “DISP” button on the panel to shut off the display screen.
- ◆ In black screen status, touch the screen, or press “DISP” button or function switch key on the panel for a short time, and the screen is lit automatically.

### Volume Adjustment

- ◆ Rotate the left knob on panel or press the button on remota control to adjust volume.
- ◆ In the RADIO status, touch and on the touch screen to adjust volume.

### Video Mode

At any other status, touch the display screen to turn on the touch screen menu and touch icon, then icon is appeared and touch it repeatedly or press on the remote control, the video mode is switched as follows.

BRIGHT → SOFT → CUSTOM → STANDARD  
↑

*Note: At RADIO and GPS navigation mode, it can't to switch video mode.*

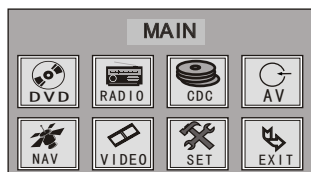
### Main Menu

Several big function modules are displayed on the homepage menu, and you can touch them directly to operate corresponding functions.

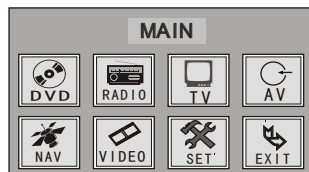
At any playing status all can open the touch menu.

Touch **MAIN** icon, there are two kinds of display of the menu interface according to different fittings.

Main menu when connect to disc changer:



Main menu when connect to TV box:



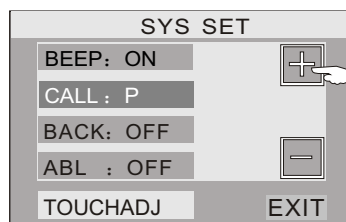
## Bluetooth handfree

The system provides Bluetooth handfree communication function. If your cell-phone has Bluetooth function, you can build point-to-point connection with the machine and realize the handfree function of answering.

### 1. Matching

Open the setup menu to enter the system setup, and set the handfree function as “P”. Open the Bluetooth function of your cell-phone in the same time.

When matching with the cell-phone, “⌘” icon will appear on the screen. When the icon is red, it indicates that signals are being searched. After the system has signal connection with the cell-phone, the cell-phone will give such prompt on “whether to connect with the device or not”. Select “Yes” and input the password “1234” in the cell-phone to confirm. After matching successfully with the cell-phone, “⌘” icon will become green and stop flickering, or else please retry until there is successful connection. The handfree setup will be at “ON” status then.






### 2. Calling

If handfree function is set as “OFF”, Bluetooth function of the main unit will be shut and connection with the cell-phone will be cut off at the same time.

After matching successfully, you can dial the number directly by the cell-phone, and the system will switch voice of the cell-phone to the on-board loudspeaker system. You can hear sound from the other side by loudspeaker of the car.

### 3. Answering the phone

When there is a call from outside, in any mode, the system will pop up the Bluetooth handfree function menu, and change the current playing sound to calling bell ring (the volume regulated then is the volume of the Bluetooth communication). The calling number will be displayed in the screen at the same time. You can touch  or  icon to select to answer or refuse the call, and touch  icon to switch the calling voice from the on-board loudspeaker system to the cell-phone. (As the right figure)



### 4. Hanging up

Touch  icon to end the call, quit the Bluetooth handfree function menu, and return to the original playing status.







**Note:** as the Bluetooth modules and software of cell-phones with different brands are different, some functions may be different or even not compatible with other systems in actual use. Please forgive us for this.

# System Setup

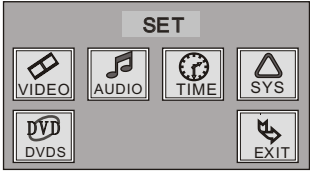
## Basic operation of setup menu

### 1. Open touch menu

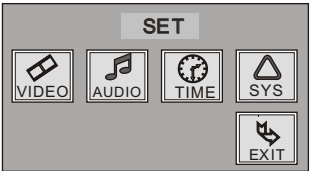
进入主页菜单, 触摸  字符, 可调出设置菜单界面。根据播放状态不同, 菜单界面有两种显示。(如右图所示)

-  : Video setup
-  : System setup
-  : Audio setup
-  : DVD menu setup
-  : Time setup (disable)
-  : Exit icon

CDC, DVD status:





Radio, TV, AV status:




### 2. Menu Selection

- ◆ Press the up/down direction buttons on the remote controller to select menu.
- ◆ Touch the direction on the touch screen to select menu directly.

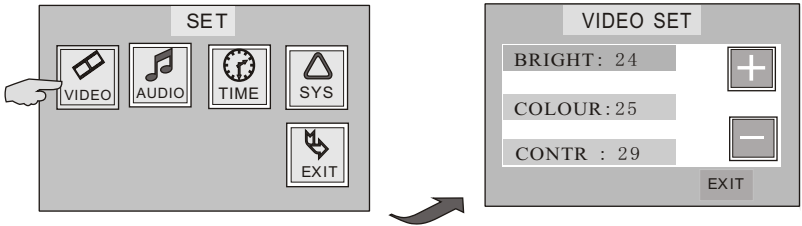
### 3. Parameter Adjustment

- ◆ Press the left/right direction buttons on the remote controller to adjust parameters.
- ◆ As the menu is displaying, touch   icon on the touch screen to adjust parameters.

### 4. Enter or Exit the Menu

- ◆ Press "SET" button on the remote control to enter or exit the current menu.
- ◆ Touch the setup menu item of the display screen menu directly to enter the current menu.
- ◆ Touch  in the setup menu interface to exit the current menu.

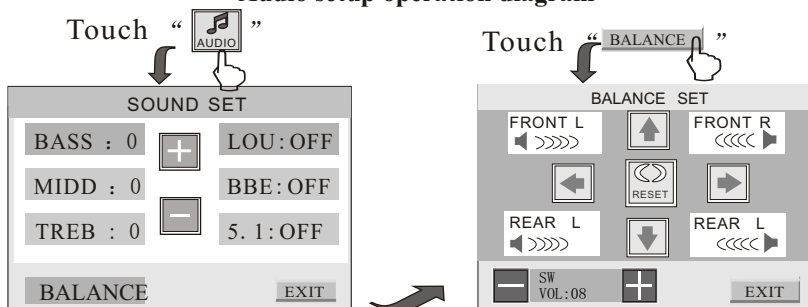
### 5. Menu Setup Operation diagram



Note: the clock function of this machine is disable.

Video Setup Operation diagram

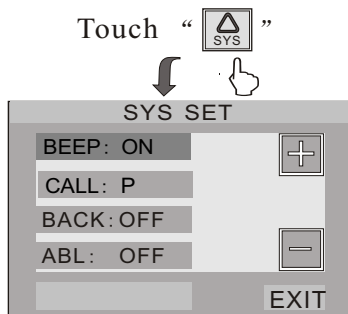
## Audio setup operation diagram



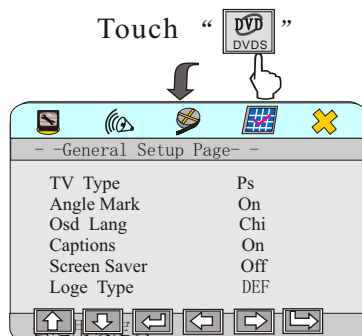
Note: the setup of "5.1" is displayed only in the DVD status.

Bass: -7 ~ +7    Mediant: -7 ~ +7    Treble: -7 ~ +7    Loudness: On/Off    BBE: On/Off    5.1: On/Off

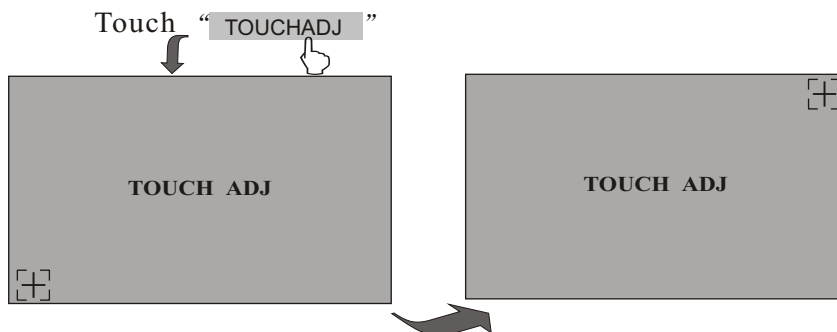
## System setup operation diagram



## DVD system setup operation diagram



## Touch adjust setup operation diagram



Use the nib to click the central point of  icon to enter the next alignment picture.


**Note:**

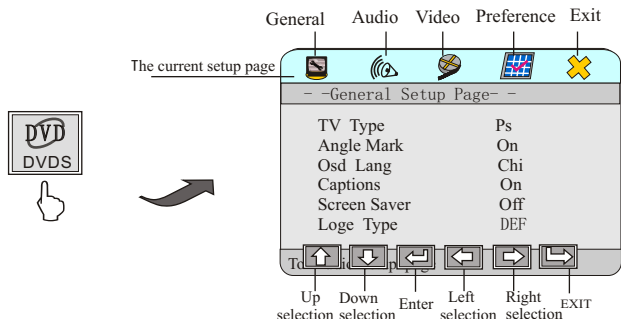
When position of the touch character has errors, you can correct it by "Touch ADJ".

When doing touch correction, the centre point of the cross must be accurate, or else the precision of touch correction will be affected.








## DVD System Setup

Touch  icon to enter DVD system setup interface(as shown in the follow picture is general setup page).




### ◆ Menu Setup Page Operation:

- Press the left/right direction button on the remote control to select the menu setup page, then, press the up/down direction button to select the specific entry of the menu setup page,
- and finally press the confirm button to confirm.


Touch the cursor   on the touch menu to select the menu setup page, then, press the cursor   to select the specific entry of the menu setup page, press finally  to confirm.

### ◆ Exit from the setup menu:

- Press directly the remote control "Setup" button to exit from the menu setup page directly.

Touch directly the cursor  on the menu to exit from the menu setup page.

#### ➤ Remarks:

- Press the left direction button on the remote control or touch  cursor to return to "Menu setup page" in the downward pulling menu of the menu setup page.
- The menu entry with brown bar means that it is chosen.

### General Setup Page

SET	Option	Description of function
Tv Type	Normal/Ps	Images will be scanned and output in the format of "Panorama"
	Normal/LB	Images will be output in the format of "Message box"
	Wide	Images will be output in the format of "Wide screen (16:9)"
Angle Mark	ON	This is operable for DVD discs with multi-angle function (It is unavailable to this model).
	OFF	
OSD Lang	English	Select the DVD system interface language of the player.
	Chinese	
Captions	ON	Select display or hidden the subtitle of the disc (needing the disc backing)
	OFF	
Screen Saver	ON	when the player is placed under the stop status or when picture is held still for 3-4 minutes, the screen saver picture will appear.
	OFF	
Loge Type	Default	Display the default logo type
	Jacket	The Logo type is the jacket picture of DVD disc with jacket picture
	Captured	The Logo type is the grabbing picture of the consumer.

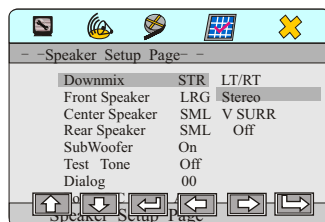


## Audio setup page

### 1. Speaker Setup Page



Audio setup page



Speaker Setup Page

SET	Option	Description of function
DOWNMIX	LT/RT	Dolby stereo, distributing the sound from the middle and the surround channels to the left and right stereo.
	Stereo	When the playing disc is with 5. 1 channel audio signal, the audio output left and right channel signal
	V Surr	The left and right channels creat surround sound effect.
	OFF	The audio output 5. 1 channel audio signal.
Speaker	Front speaker	"LRG"means all band speaker
	Center speaker	"SML"means the medium and tweeter speaker
	Rear speaker	The consumer may adjust depending on the practical speaker configuration
	Subwoofer	
Test Tone	ON	When the test tone is turned on, the system will play a section of test audio in accordance with the sequence of the front left, center, front right, right surround and left surround sequence. If there is audio signal output, the connection of the player and 5. 1 channel power amplifier and setup is correction, otherwise,
	OFF	
Dialog	00-20	Adjust the magnitude of the DVD disc dialogue volume.
Post DRC	ON	It is to set up the post DRC ratio of sound. It is suggested that the post DRC is set up to "Auto" mode.
	OFF	
	Auto	

Remark:

- The 5. 1 channel output can only be turned off when the "DOWNMIX mode" is set up to "STR", facilitating the conventional VCD operation.
- The dialogue volume can only be set up when the "DOWNMIX" is set up to "STR" or "LT/RT".
- It can only enter the "Test Tone" mode and carry out the setup for the center speaker and rear speaker when the display screen displays "No disc" and entering the system setting.

### 2. SPDIF Setup Page

SET	Option	Description of function
SPDIF	SPDIF Off	Meaning that the output signal is an analog signal.
	SPDIF/RAW	Meaning that the true form source code flow of the DVD disc is delivered directly through digital port. That entry is selected when the DVD SPDIF output is connected with that of the digital power amplifier.
	SPDIF/PCM	Meaning that the code flow of the disc had been decoded before it was encoded into the PCM digital signal output. That entry is selected when the DVD audio output analog signal is connected with 2-channel digital stereo amplifier.

## System Setup

SET	Option	Description of function
LPCM Output	48K	It is available to convert 96 K LPCM digital audio into 48K LPCM output when selecting LPCM as 48 K. (That entry is selected when your power amplifier does not support 96K LPCM decoding.) It is available to deliver the LPCM digital audio in true form output when selecting LPCM96 K.
	96K	

### Remarks:

- ◆ The setup of PCM channel entry can only be carried out when "SPDIF output" is set to be "SPDIF/PCM" or "Other".
- ◆ If the sampling rate of LPCM of the disc is smaller than the sampling rate chosen, then the smaller output is delivered (if the disc is 48 K, but the consumer's selection is 96K, the actual output is 48 K)

## 3. Dolby Digital Setup

SET	Option	Description of function
Dual Mono	Stereo/L-Mono R-Mono/Mix-Mono	This entry is the selection of Dolby digital channel setup.
Dynamic	FULL-OFF	The greater the dynamic range compression rate, the less obvious of the dynamic range difference.

## 4. Channel Delay

Select the sound configuration through touch up/down cursor. Touch Left/right cursor to adjust the sound delay distance of the sound chosen. Press confirm cursor to confirm and exit.

**The sound delay distance:** Select different sound transmission effect in different space, and the magnitude of space decides the magnitude of delay.



## 5. Equalizer Page

SET	Option	Description of function
EQ Type	Done/Rock/Pop/Live/ Dance/Techno/Classic Soft	This setup is to set up the player output audio, and it is available to imitate various effects of music style.
Bass Boost	ON	This setup is to set up whether or not enhancement of bass output.
	OFF	
Super Bass	ON	This setup is to set up whether or not enhancement of super output.
	OFF	
Treble Boost	ON	This setup is to set up whether or not enhancement of treble boost.
	OFF	

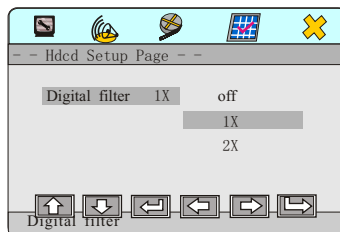
## 6. 3D Processing Page

SET	Option	Description of function
PRO LOGIC II	ON	Dolby directional logic setup, the setup is only effectively when "DOWNMIX" setup in "Speaker setup" is setup to "OFF".
	OFF	
	Auto	
Reverb Mode	Off/Concert / Living Room/Hall/bathroom/ Cave/Arena / Church	The setup is set up the reverb mode to obtain different reverberatory effects

## 7. Hddc Setup Page

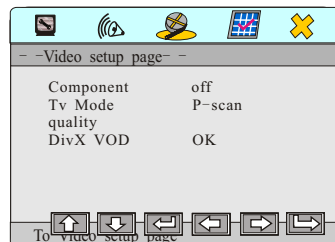
### Digital filter

Digital wave filter: This option is used to select the sampling frequency for the digital wave filter. The more the sampling frequency is, the clearer and more perfect the tone quality is. The set-up at delivery from the factory is Off. Under such set-up, the reading of hddc displays cd. To play hddc, please set it to the default value or 2X.



### Video setup page

- Component YUV/RGB/VGA/Off
- TV Mode P-Scan/Interlace
- Quality Sharpness/Brightness/Contrast/  
Gamma/Hue/Saturation/Luma Delay
- Divx VOD Done



### Quality setup page

SET	Option	Description of function
Sharpness	High	To observe a soft picture, choose generally "low", and if the picture is darker, you may select "High".
	Medium	
	Low	
Brightness	-20 ~ 20	Adjust the brightness of the picture
Contrast	-16 ~ 16	Adjust the contrast of the picture
Gamma	High	This setup is to adjust the DVD output's video signal to meet the TV GAMMA value, making the displayed and recorded images fitting more closely.
	Medium	
	Low	
Hue	-9 ~ 9	Adjust the hue of the picture
Saturation	-9 ~ 9	Adjust the saturation of the picture
Luma Delay	0T / 1T	Set up the luma with delay or without delay of 1 clock cycle.



### Preference Setup Page



Preference Page can only be set up when the disc exiting from compartment and under no disc status.



SET	Option	Description of function
TV Type	PAL	Set up the type of the video system
	AUTO	
	NTSC	
PBC	ON	Setting the ON/OFF of the PBC menu play control. If turn on the PBC play menu, when playing 2.0 version and above disc, entering the menu folder automatically when reading.
	OFF	
Audio	English/French/Spanish Chinese/Japanese/Korean Russian/Thai/Others	It select the language of the sound when disc is playing (needing disc backing).
Subtitle	English/French/Spanish Chinese/Japanese/Korean Russian/Thai/Others	It select the language of the subtitle on the disc (Needing disc backing).
Disc Menu	English/French/Spanish Chinese/Japanese/Korean Russian/Thai/Others	It select the language of the disc menu (needing disc backing).
Parental	1 KID SAF/2 G/3 PG 4 PG 13/5 PGR/6 R 7 NC17/8 ADULT	It set the locking level of the disc menu.
Country Region	China/France/HongKong Japan/Taiwan/Gbr/Usa	It set the code of the region,where the country is located (Needing disc backing).
Default	Reset	Resumes the function setup column to the original status of player before delivery from the plant.

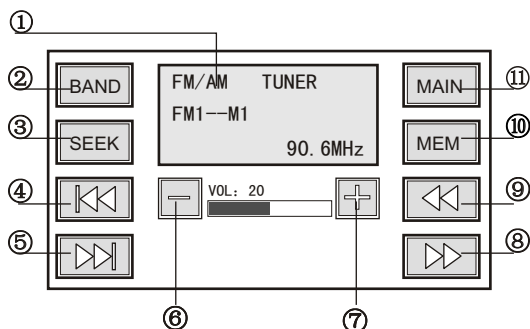


### Exit from the Setup Menu

Pick out the main menu “” icon with the left/right direction button, press the confirm button or touch  icon directly, then it is available to exit from the setup menu.

# RADIO Function Operation

- ◆ Press “RADIO” button on the panel or on the remote control to enter tuning and playing status.
- ◆ Under the other arbitrary status, touch the interface **MAIN** icon, and then touch again the **RADIO** icon to enter radio playing status (see the picture at the right).
- ◆ Press the left knob to turn off the power off, or press the other functional button to shut down the radio and enter other status play.



Num	Button	Description of button function
①	Information window	Display the information of the current playing status
②	Band Selection	Touch it repeatedly switch band in turn among FM1/FM2/AM
③	Search station automatically	Touch it twice to search and save the station searched automatically.
④ ⑤	Station Selection	Select previous/next station for play
⑥ ⑦	Adjust volume	Increase or reduce volume(in the bluetooth handfree status, adjust the volume of commucation)
⑧ ⑨	Search station semi-automatically	Enter the semi-auto search, and after searching the station, touch the <b>MEM</b> icon two times to save a station.
⑩	Memory station	Save the station searched
⑪	Main menu	Enter to main function selection menu


**Remark:** the correlative operation of the panel and remote control refer to “description of button”.

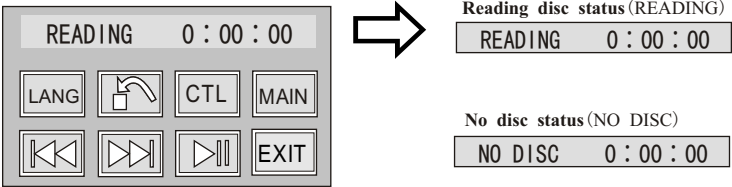
# DVD Function Operation

The DVD player is able to play fluently multiple discs such as the DVD/VCD/CD/MP3 /JPEG/MPEG4 (limited to the standard discs of 12cm diameter.)


## Basal operation

### Enter/exit DVD function operation

- ◆ Press “DVD/USB” button or remote control “DVD” button to enter DVD mode.
- ◆ In other status, touch  icon in the main menu to enter DVD status play.
- ◆ Press the other functional button to exit the DVD status play and enter other status play.

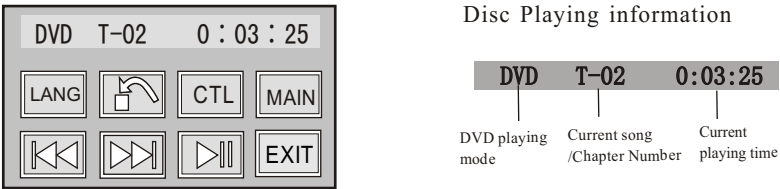










### Inset/removal disc

- ◆ If the display displays "No disc" in the DVD status, place the disc with the printed side facing upward and insert the disc lightly from the disc compartment door. The system detects the disc insertion and will suck and install it automatically to the player to run the disc reading and playing.
- ◆ Press the panel " " button, the disc will exit from the disc compartment automatically.

## Disc Playing

### DVD disc playing



Cursor	Description Of Function	Cursor	Description Of Function
	Switch the language of the sound when disc is playing (needing disc backing).		Touch the cursor twice continuously to select the previously track/chapter for play.
	Return to the main menu of the disc		Select the next track/chapter for play.
	Shut off the touch menu and turn on the touch cursor		Pause/play the current track; when carry out the multiplication speed play, press it twice to resume normal paly
	Enter to main function selection menu		Shut off the touch menu

## Subtitle display (with discs supportive of this function)

When playing DVD disc of multiple language dubbing, it is available to select different subtitle on the screen pressing “SCAN” button on the panel or “title” button on the remote control.

## Fast Search Play

During playing, press the panel  $\wedge/\vee$  direction button to carry out the fast forward/rewind multiplication speed play, 5 kinds of multiplication speed play are selected as  $2\times$ ,  $4\times$ ,  $8\times$ ,  $16\times$ ,  $32\times$  depending on the disc type, and press it again to resume to normal play.

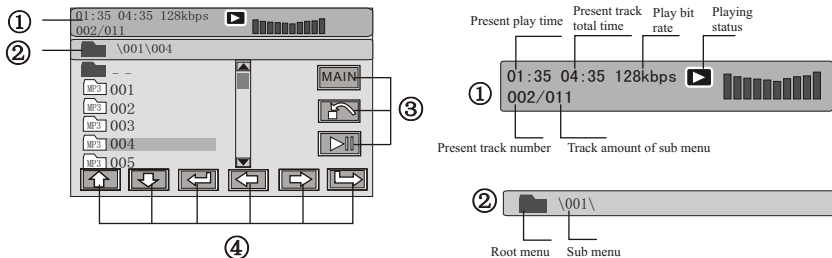
## Circular play

During playing, press the remote control “REP” button to carry out the “Repeat One”, “Repeat All”, or “Random” play.

**Remark:** the correlative operation of the panel and remote control refer to “description of button”.

## MP3 disc play

Put the MP3 disc into the DVD player, and after the disc readout, it will enter the file root directory menu and begin to play automatically.



Num	Button	Description of button function
①	Information window	Display the information of the current track
②	Path	Display the path of the current track
③	Cursor	Its function is same as the corresponding cursor of the DVD disc
④		Up/down selection
		Confirm for playing or enter to next subordinate menu
		Enter to the superior menu
		Enter to next subordinate menu
		Shut off the touch menu

## Remark:

- ◆ Under the playing status, touch  $\wedge/\vee$  button on the panel or  $\ll/\gg$  button on the remote control to carry out the paging selection for the track in the sub menu, and rotate the right knob to select track continuously, then press it vertically to confirm for playing (the function of tone adjustment is unavailable).
- ◆ The function operation of Multiplication speed play and circular play is same as "DVD disc play", and the correlative operation of the panel and remote control refer to “description of button”.
- The tone quality of MP3 files depends basically on the compression/decompression rate of the disc selected.
- During MP3 playing, playing position cannot be memorized.

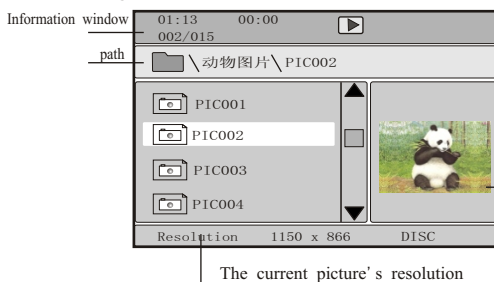


### MPEG4 disc playing

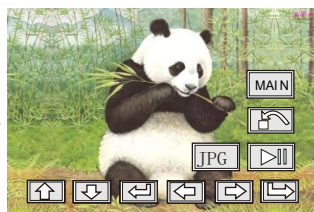
- ◆ MPEG is the abbreviation of "Moving Pictures Experts Group", the Chinese denomination for "Dynamic image specialist group", and the MPEG4 is the fourth generation encoder standard for video audio as released by the specialist's group.
- ◆ The play operation of MPEG4 disc is basically same as the DVD disc, no longer rewording here.
- ◆ The MPEG4 disc available on the market adopts different kinds of engraving format, such as: XVID, the AVI DIVX, RM, etc. and it is a normal phenomena if part of discs not available to be played at the player because of the format reason.
- ◆ MPEG files are displayed on the player in the form of folder/file. Move the cursor to the small icon at the front through the direction button and press the play button for play. The detailed operation refer to the "MP3 disc playing".

### JPEG file playing


Insert JPEG format disc under DVD status, it will display the following main menu interface after reading.




Picture browse menu interface:




#### ◆ Picture browse

Choice a picture and touch  icon can enter picture browse.(as shown in the above picture)


#### ◆ Grabbing picture

Touch the touch screen lightly under the picture play status to pop up the touch menu to select the favourable picture. Touch  icon, and then, it is available to take this picture as the log-on picture of the DVD status.

#### Remark:


- The  icon in the touch menu can only be displayed when the picture disc is playing, and it is not able to operate any function during the picture grabbing.
- The grabbed picture can only be displayed on the screen when DVD exiting from the compartment or if there is no disc status when the "Log-on picture" in "Common setting page" is set up as "Consumer picture" at DVD setup menu.

#### ◆ Picture rotation

At the picture browse, touch  cursor or press remote control right/left direction button, the current picture will be rotated 90 degrees, and the picture drawing back sequence will remain unchanged; (This function is only effective when the current picture is placed at normal play status, and will be invalid as the picture play)

**Note:** in USB status, operations of browsing, snapping and rotating pictures with JPEG format in the U-disk are same as operations above.

### 3. U-disk/SD card play


- ◆ To play files in the U-disk, first insert the U-disk recorded with signal sources to the USB interface in the panel of the main unit directly or by interconnecting cord in a correct way.
- ◆ To play files in the SD card, insert the SD card recorded with signal sources to the SD card interface in the panel of the main unit directly in a correct way.
- ◆ Enter DVD status, open the touch menu, touch  icon repeatedly or press the “DVD” key in the panel or remote controller, and status can be switched circularly between “DVD/USB/SD” playing modes.
- ◆ After U-disk or SD card readout, the method is as same as MP3 disc playing mode; for detail operations, please read “MP3 disc playing”.

**Remark:**

- The player supports 1.1 version U-disk.
- As standards of manufacturers which produce U-disk with MP3 player are different, it may cause that some U-disk can not be played.
- The USB connecting wire is better to be the shortest when used to connect, or else it may cause abnormal operation of the U-disk.

## Other function operation

### 1. GPS navigation function operation(optional)

- ★ This function is available only when connected with GPS mode.
- 1. 1 Enter navigation system
  - ◆ Press NAV button on panel or the remote control or touch  icon on the main menu, to select GPS navigation function.
  - ◆ After selected GPS function, the display will show GPS information.
  - ◆ At navigation mode, only the corresponding touch operation functions about GPS will be available. If other functions needed, it must exit the navigation mode.
- 1. 2 Navigation music and listening function

At arbitrary function status and when changing over to the GPS step without the navigation voice prompt, it is available to enjoy the music normally, letting your travel feel much more easily and happy!
- 1. 3 Navigation volume adjustment


Under GPS navigation status and when there is music output, it is to adjust the system volume at this time; Under the voice navigation status, it is only used for GPS navigation volume adjustment;
- 1. 4 GPS operation

The navigation system has writing function, all operation functions of GPS please refer to manual of GPS navigation module.
- 1. 5 Exit GPS navigation functions

In GPS mode, press "NAV, RADIO, DVD/USB" button on the panel to exit GPS navigation mode.

### 2. AV function operation

This function is available only when connected with outside audio and video inputting.

- ◆ Turn on AV: Touch  on the main menu or press "TV/AV" button on the remote control to enter to AV play. (as shown in the right picture)
- ◆ Turn off AV: Press the POWER button to turn off the machine or press the other functional button to turn off the AV and enter into the other play mode.


The status of displaying touch function



### 3. TV operation (optional)

This function is available only when connected with outside TV box.

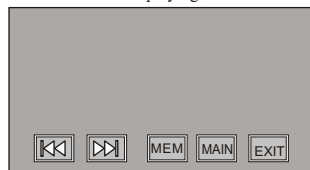
#### 3. 1 Select TV function

Turn on AV: Touch  on the main menu or press "TV/AV" button on the remote control to enter to TV play. (as shown in the right picture)


#### 3. 2 Search station automatically

Press the "SEEK" button on the remote control or the "SCAN" button on the panel to enter the auto search status and save the station searched automatically to the corresponding channel number.





The status of displaying touch function



### 3. 3 Channel Fine-tuning

Rotate the right knob and press the left/right direction button on the remote control to fine tune the station. When fine it to the best state, and then press the touch screen  icon two times to save the station.

### 3. 4 Select channel

Press the“SEEK/TRACK”button on the panel or press the   button on the remote control or touch   icon to select the previous/next station for play.


### 3. 5 Exit TV functions

Press the POWER button to turn off the machine or press the other functional button to turn off the TV and enter into the other play mode.

## 4. 6-disc DVD Changer Operation on

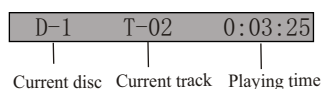
This function is available only when connected with 6-disc DVD Changer .









### 4. 1 enter/exit disc changer play

Press CDC button on remote control or touch  icon on the main menu, to enter disc changer play status, and press left knob on the panel or other function button to exit.



### Disc Playing information



Cursor	Description of function	Cursor	Description of function
	Shut off the touch menu and turn on the touch cursor		During DVD Playing, it Switch disc language During VCD Playing, it swithe channel (needing disc backing).
	Return to the main menu of the disc		Select the next disc for play.
	Select the previous disc for play.		Pause/play the current track; when carry out the multiplication speed play, press it twice to resume normal paly
	Enter to main function selection menu		Shut off the touch menu


### 4. 2 Select disc for play

This changer can auto inspect, during inspecting, you can select the discs by touching the icon on touch screen and also can though pressing the number button on remote control.

- ◆ Press the number 1-6 on the remote control to select discs to play.
- ◆ Press the number 8 or 9 on the remote control to select previous or next discs to play.

**Remark:** The system will automatically switch to the next disc to play if there is no disc inside the changer correspondent with the selected disc number or the disc inside the changer can not be player.

### 4.3 Disc play


- ◆ When discs are designed with a playing menu, could operate the menu when return to disc root directory menu.
- ◆ At non-menu mode, the system will automatically play on a sequential order.
- ◆ In MP3 playing mode, should touch  icon twice time to return to the root directory menu.

SMART NAVI		
ROOT	>	0
001		MP3 001 1
002		MP3 002 2
003		MP3 003 3
004		MP3 004 4
005		MP3 005 5
006		MP3 006 6


\* During MP3 playing, playing position cannot be memorized.

**Remark:** The function operation of Multiplication speed play and circular play is same as "DVD disc play", and the correlative operation of the panel and remote control refer to "description of button".

### 4.4 System setup of DVD changer

- ◆ Enter the menu setup, and then select  icon to enter menu setup of the system of the changer.
- ◆ press the number 7 on the remote control can switch to DVD setup menu.
- "preference page setup" can be selected until the changer is drawn out.
- Password setup function is not available to this changer.

### 4.5 Changing the discs on disc changer

- ◆ Open the sliding door of the disc changer, press the  button and the disc core will be ejected out. then take out the disc core(if you cannot take the disc core out under special circumstances, please contact professionals)
- ◆ Pull out the tray from disc core and take out the disc.
- ◆ Carefully hold the disc core, pay attention to the direction of the disc core, if the outlet of the disc core is downwards, the disc may possibly fall down!
- ◆ Pull out the disc tray from the disc changer, and place the side with marks of the disc upside into the tray.
- ◆ Place the compatible discs to tray in turn.
- ◆ Open the disc door fully, and check the direction of the disc core and upside of machine, then carefully push the disc core till it generates "click" sound, then completely shut the disc door till hearing the "click" sound.

#### Note

- ◆ Make sure the disc door of the changer is tightly closed to prevent impurities and dirt from getting inside to cause malfunctions.
- ◆ To avoid accident, do not place more than one disc on one tray.

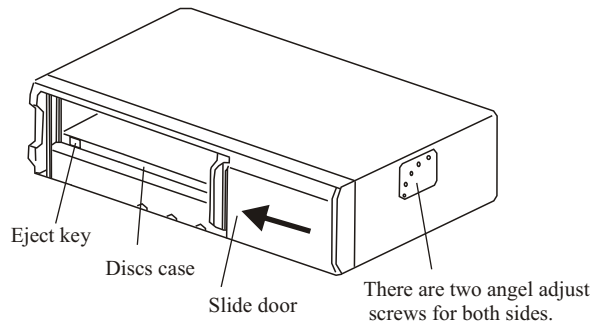
# Accessories (optional)

Our products are in series, there will be slightly differences in functions and accessories according to the specific specifications, for example, GPS and backing camera. So for your own interests, please check all the accessories and packing list.

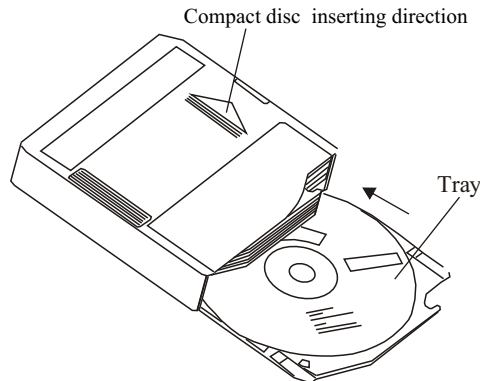
## 1. 6-disc DVD Changer Installation

### 1.1 Appearance

◇ DVD changer



◇ Compact Disc and Tray



#### Note

1. Do not use a disc with 8 cm diameter. Tray should be placed in the right position before inserting compact disc.
2. Don't draw out the tray from the compact disc emphatically to avoid damaging it.

### 1. 2 Installation precaution

- ◆ Please use dedicated fittings and appointed accessories to install the machine safely. If other accessories are used, the machine may be damaged or can not be installed and fixed safely, and will cause accessories loosening and falling or make the machine failing to operate.
- ◆ Not put the machine to direct sunshine or place it near the heat producing appliances or other places with high temperature. Not install the machine on back undercarriage if temperature inside the car is too high.
- ◆ Not put the machine to direct sunshine or place it near the heat producing appliances or other places with high temperature. Not install the machine on back undercarriage if temperature inside the car is too high.
- ◆ Selecting wires and installing the machine need professional technology and experience.
- ◆ For safety, please let professional personnel to install it.
- ◆ To avoid cutting the connection wires by sharp metal edges, cables and wires must be kept away from movable parts (such as sliding track of the seat) and sharp metal edges.
- ◆ Before connection wire, please disassemble negative(－) wire of the battery, or it will cause fire or get an electric shock.
- ◆ When connecting the electric system, pay attention to the factory component(ep. Car computer) .
- ◆ Never touch lead of components when connecting the machine power.
- ◆ Check the ampere value of the fuse when connecting to the fuse box. Replacing fuse must also use fuse with appointed ampere value.
- ◆ Please keep the machine and wires away the car wire bunch more than 10cm, and keep wires of the accumulator away from other wires as far as possible to avoid the interference of external noise.

#### **Warning**

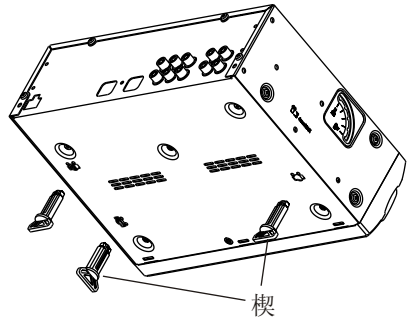
##### **For avoiding dangers such as electric shock and fire :**

- ◆ Please remove wires connected with the accumulator positive terminal before wiring.
- ◆ Never twist cables, peel cables or use cables with broken insulation layer.
- ◆ Never make the cable twisting with other objects. Please select and install wires and cables according to requirements of the manual to avoid disturbing driving.
- ◆ Pay attention to not damage the fuel line, fuel tank or electric wire when drilling.
- ◆ Do not use bolts or nuts in the brake or steering system to connect ground wire or install the machine, or else it may produce difficulty in controlling the car or cause fire.
- ◆ Never jam the vent or radiator board and make heat accumulates inside.
- ◆ Please pay attention to the load capacity when providing power to other facilities to avoid fire or electric shock caused by overstepping the permitted load of wires.

### 1.3 Installation Operation

#### (1) Take off the Wedge

- There are three wedges on the button of the instrument to protect damage during transporting. Before install, please take off the wedges, please keep these wedges store and cover the holes of the wedges with dustproof paper.
- If the wedges have not been taken off, the DVD changer can not be-pulled out.

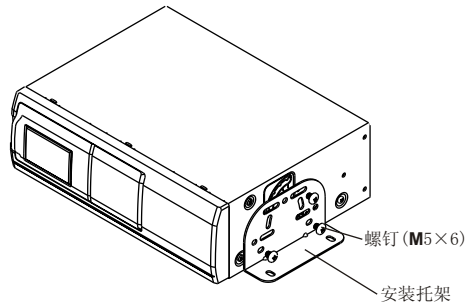


#### (2) Install L-form Supporting Frame

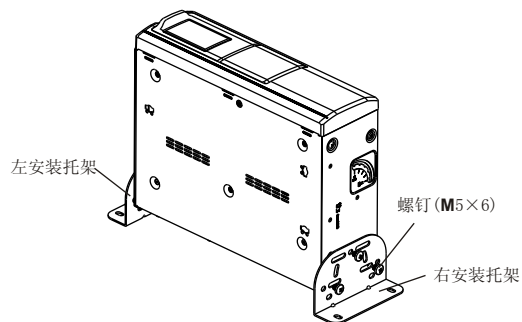
- Adjust the installation position and angle.
- Refer to 3 to change the spring position according to the installation angle.
- After installing L-form supporting frame, fix it by screw(M5×6).

For example

Typical horizontal installation



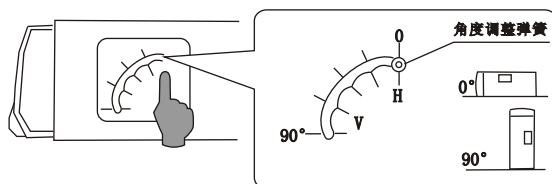
Typical vertical installation





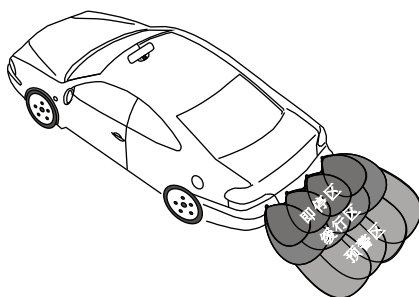
### (3) Change the Spring Position

- ◆ The spring position must be changed according to the installation angle. If the shockproof spring is not in the right position or not in the same position, it will cause shockproof not to work.
- ◆ Put the shockproof spring vertically or horizontally.
- ◆ Factory setting position of spring is horizontal, change the angle according to the
  - Change the spring position by finger.
  - Label the position, please label after setting the spring position to avoid dust.



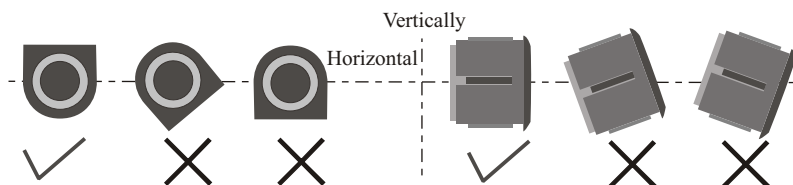
## 2. Car Backing Sensor Installation

### 2.1 Sensor's Effective Scope Diagram



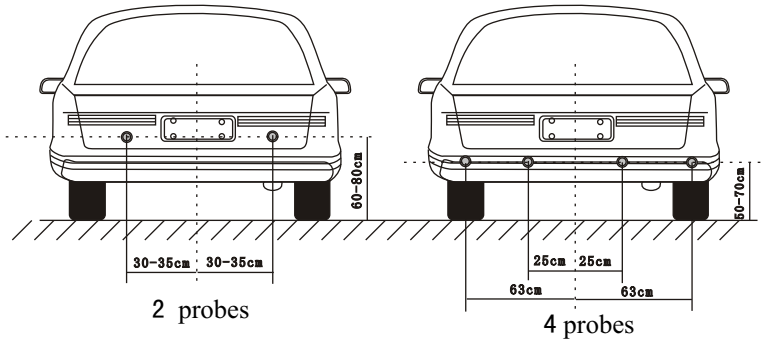
### 2.2 The Requirements and Method of Installation

Sensors should be inserted vertically into rear bumper as the arrow's direction. Any direction's inclination will affect the usage.



### 2.3 Sensor's Installation Position

According to the quantity installed, the positions can be as follows:



#### Note

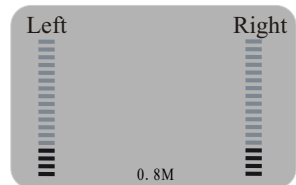
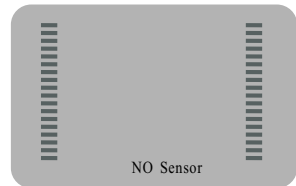
The final installation position can be adjusted slightly according to your car dimensions.

### 2.4 Backing radar usage

When backing car signal cable is connected properly, radar function will be started automatically when you backing your car.

### 2.5 Signpost display

- ◆ When radar is not connected, monitor can only display ordinary signpost (yellow), Which as shown in right picture.
- ◆ When radar backing car module is connected left and right sensor and the distance between radar sensor and barrier is less than 1.2 but more than 0.3, monitor will display left and right radar signpost, and actual measure distance, which as shown in right picture.
- ◆ When radar and all sensors have been connected and the distance between radar sensor and barrier is less than 0.3 monitor will display red signpost and STOP.



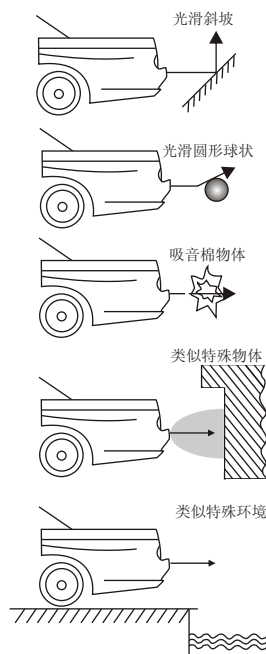
### 8.2.6 Display of Radar Detection

- ◆ When the distance between radar sensor and barrier is more than 1.6m, there will be a "FAR" on screen bottom.
- ◆ When the distance is less than 1.6m but more than 1.2m, the distance will be displayed on screen bottom and buzzer does not work. sensor is now working in warning area.
- ◆ When the distance is less than 1.2m but more than 0.2m, the distance is displayed on the screen bottom and buzzer beeps, the more closer, the more frequent buzzer beeps. Sensor is now working in slow down area.
- ◆ When the distance is less than 0.2m, it will display "STOP!" on screen bottom, buzzer gives out continuous sound, sensor is now working in stop area.

### 2.7 Precautions for Using Radar

Detection can be affected by:

- ◆ When in a smooth slope, signal can be reflected out.
- ◆ When in the near of a smooth spherical object, signal can be reflected out.
- ◆ When in the near of a sound absorption cotton like object, signal can be absorbed greatly.
- ◆ If meeting similar special objects, reflection of the detecting wave will be blocked.
- ◆ If meeting similar special circumstances, the detecting wave can not be detected.
- ◆ After installation, please first Confirm the function, then use.
- ◆ When there is a rainstorm, or the inductor is polluted or is damaged, the detecting results will be affected.

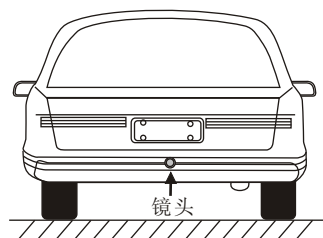


#### ⚠ Note

The system is only designed to help you back your car, our company will not take any responsibilities for any accident. So, please pay attention in driving.

## 3. Car Backing Camera Installation

- ◆ The standard installation position of the water-proof concave camera is as shown in right figure.
- ◆ The ordinary camera can be installed in any water-proof position needed.



## 9. Precautions

### 9.1 Precaution when using the product

- ◆ Please don't insert the coins or some metal things.
- ◆ Please don't try to repair. This product is composed of lots of precise electronic components. They will be broken or cracked if disassembled or refitted. If the failure happens, please turn off the power supply immediately and notify distributor.
- ◆ Please don't let the display screen incur the pollution like dampness, dust, steam, lampblack, etc.
- ◆ Please don't use thinner or other chemical to wipe the surface of the display screen. The dirt should be wiped off by soft cloth.
- ◆ Please don't let the display screen be disposed in insolation.
- ◆ If water or other substances enters into the product, please turn off the power supply immediately and contact the distributor.
- ◆ Please turn off the power supply first when you plan to clean the machine.

### 9.2 precaution for discs

- ◆ Discs which was dirt, dust, scratches and bending on surface will cause malfunction.
- ◆ Do not place a disc on sharp object, or the disc may be scratched.
- ◆ When not used, a disc should be taken out.
- ◆ The following places are not suitable to place a disc.
  1. Under direct sunshine.
  2. Dirty, dusty and damp places.
  3. Near auto heater.
  4. Seats or dashboard of a car.
- ◆ Do not use discs with a diameter less than 12cm (not including 12cm) or discs with irregular shapes such as heart or octangular shape, etc.
- ◆ Disc cleaning: Rub the disc surface by soft damp cloth; If the disc is quite dirty, use soft damp cloth with alcohol to rub gently. Please don't use dissolvent such as gasoline, dilution or common disc cleanser, since they may damage discs.

### 9.3 Precautions for installation of AMP

- ◆ Check if the resistance of the speaker matcher with that of the AMP.
- ◆ Please use high-quality speaker wires, and the length of the wire must be exact.
- ◆ Connect jack must be inserted correspondingly.
- ◆ To reduce the static noise, adjust the volume to the 2/3 of the max volume, and adjust the volume of the AMP to the distortion when with AMP.
- ◆ While installing, the input and output wire must be away from the power wires and the wires of the car computer, or it will cause noise.

### 10. Trouble shooting

Before sending this player for service as required, please carry out inspection or small adjustment according to possible causes of occurred problems stated on the list below. It is possible that problems will be solved and this player will go back to normal operation. If you have any doubt about the problems on the list or the problem can't be solved effectively by following the remedy as instructed, please contact with our company or professional service center.

Problem	Possible Cause	Remedy
LCD screen no any display	The power and ignition switch are not switched on	Set the switches to ON
	Connection wire is loose	Reconnecting
	Fuse is burnt out	Replace with new fuse
No sound	The system is in MUTE mode	Cancel the MUTE mode
	Connection wire of the speaker is loose	Reconnecting
	Speaker is damaged	Replace new speaker
Can not play pictures	The disc is not correctly placed	Place the disc on tray with the side with label facing up ward
	The disc is dirty or damaged	Try other discs
Sound skiping once in a while	The disc is dirty or damaged	Try other discs
The music is skipping when the car is shaking	The main unit is not correctly installed	Make sure the main unit is fixed solidly
	Installation screw of disc changer are tightened in wrong direction	Place angle adjusting screw with V or H marking in correct installation direction
Bluetooth handfree function is disabled	Not match the main unit correctly	Match again

#### Note

This player is a very complicated mechanism. Do not dismantle it and try to fix it by yourself, lest the mechanism may be damaged!



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