

Product Manual

Vehicle Intelligent Video Navigation System



Thank you for purchasing car digital player from our company.
For correct use of this system, please carefully read this product
manual before using and properly keep it for future reference.

TIPS

TIPS

For your and other people's safety, drivers are required to ensure a safe driving. Do remember not to have safe driving affected by watching navigation system or operating the machine. This will probably cause serious traffic accident. Please do not watch video and operating the machine during driving. You should adjust volume of the player to a properly level for hearing the outside clearly. Please abide by the actual traffic rules.

It is a must to keep disc entrance clean. In case of dust found, an immediate leaning is needed. The disc with dust cannot be placed into the player until it is thoroughly cleaned. Otherwise, the dust will be brought into the player with the disc. Frequently in this way for a long-term, playing effect of the machine will be lowered causing poor disc reading or mosaic on image.



To avoid breaking of the traffic rules, drivers are prohibited to watch program and operate this machine during driving to prevent traffic accident. (Passengers can watch program with back display).

Note: The product manual enables you to learn well about performance and operating methods of the product. Some of the functions are achieved by remote controller and touching display screen, and some of the functions can be realized with panel of the main unit.

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Function Introduction

1.Functions

- ◆ DVD play function is compatible with disc in format of DVD-R, DVD-RW, VCD, SVCD, CD, WMA, MP4, AVI, DIVX, 3. X/JPEG;
- ◆ Built-in GPS navigation, 3D scene map function;
- ◆ Built-in Bluetooth hand free function, Bluetooth music function;
- ◆ Built-in USB/SD card playback function: support picture, music, video, playback.
- ◆ Built-in AUX input function;
- ◆ Built-in AM/FM radio function;
- ◆ Support back camera function;
- ◆ Wallpaper style function;
- ◆ Setting function;
- ◆ Calculator function
- ◆ High definition digital screen (800*480 resolution);

Optional function

- ◆ IPOD play function;
- ◆ Digital TV function;
- ◆ Analogue TV function;

Special car product characteristics

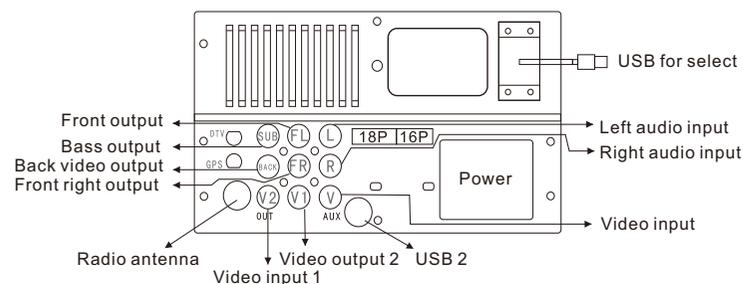
- ◆ Fixed panel with no seam on the original car;
- ◆ Same color of panel for special car with no connecting with original car circuit required;
- ◆ Full screen method benefits a convenient and rapid operation.

Note: In case of any differences provided in this manual with the actual product, all are subject to the actual product.

2.Connection Guide

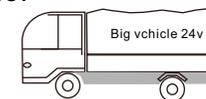
In order to avoid the wrong connection and damage the machine, please follow the connection diagram.

Connection Diagram



3.Installation notice

This player is used in the vehicle with car 12V power supply. Please do not directly install this player in a truck or bus. Otherwise, damages may be caused to the player. It is required to perform connection according to the instructions. Improper connection may possibly cause failure or damage against car power supply system. Negative pole (1) of the speaker is connected to the cable with black edge of the lead. It is strictly prohibited to connect it with metal part of the car, or connect with negative pole of each speaker. You cannot power it on until making sure that all connections are properly made.



At completion of installation, when you begin using the car (including after replacing battery of the car), please use a tool with small tip (e. g. ball pen) to press RESET button on the inner panel once to have the system be in a state of initial setting.



If with no guide of professionals, you are not recommended to replace improper fuse. That may cause damage against the palyer or fire accident. ⚠

Basic Information

4. Precaution

The following discs can be played with this player:

Disc Type	Disc Sign	Disc Content	Disc Size
DVD		Audio and image	12CM
VCD		Audio and image	12CM
CD		Audio only	12CM
MP3		Audio only	12CM
MPEG-4		Audio and image	12CM
U-Disc		Audio and image	2.0 version and below

Note: 1. This player is compatible with DVD and VCD disc in version of 1.0/2.0/3.0/DVCD/CD-R. In case of MP 4/ DIVX in different format, a few of them may with either audio or image. This is normal;

2. When you enjoy DVD, VCD, MP3 or CD, the display screen will automatically identify the disc and show corresponding text. When signs are displayed on the TV screen, it means no such a function in this mode. Please select other function. Refer to other instructions for detailed operation.

(1) Please do not modify the player. Modification of the player will possibly cause accident. In case of any operation driving, please do not operate until parking the car at a safe place;

(2) Do not operate it at extreme high or low temperature. Before powering on the player, make sure that temperature in the car ranges +60—20°C ;

(3) When playing a disc, to achieve the best sound effect, please pay attention to the following:

A. When taking the disc clean. Please do not use the disc with dust on its surface;

Basic Information



Figure A



Figure B

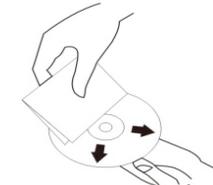


Figure C

B. Do not use the disc with glue (or ink);

C. Do not use the disc with label in poor contact. The part in poor contact with the label will be with adhesive glue left on (as shown in the figure);

Note: Keep hard article away from the display to avoid scratch.

5. Basic Functions

⏻/SRC In power – off state, click button in ⏻ the panel to power the player on. If to press and hold power button for ≥ 3S, the system will automatically power off. (If the player is installed in the car, you may power the player on with the car key, and plug the car key out to power it off. When the system detects power disconnection, it will automatically power off.)

MIC window

In Bluetooth mode, this window is for voice communication by Bluetooth hand free function.

MODE

In power – on state, repeatedly and shortly press (mode) button to change play mode of the player in the following sequence:

TV Mode--Bluetooth Mode--AUX Mode--Radio Mode--Disc reading Mode --SD/USB Mode---TV Mode

Note: When there is disc or USB or SD placed, press this “MODE” to switch

Basic Operation

Switch to radio mode, enter and play radio; switch to disc reading mode, play the former memory function; switch to SD/USB mode, (Note: when there is USB or SD card inserting, press this button can switch to this mode); switch to AUX mode, external audio signal input, input radio and video into the player; switch to Bluetooth mode, when there is Bluetooth connect, can operate dial, phone book and Bluetooth music function; switch to TV mode, receive and watch TV channels.

BAND

Press this button to quickly enter the radio function interface. In radio mode, press this button to change radio waveband.

NAVI

Press this button to enter navigation interface.

Short press this button to close volume output, and press it again to recover the former volume level.

Press and hold for 3 seconds to close the display and press it again to open the display.

SEL volume

Press this button can enter volume regulator, press again to back to the interface.

AUX jack

External audio signal input, input radio and video into the player.

VOL

Revolve to control the volume.

IR remote window

Infrared signal from the remote controller can be received through this window for function operation.

Disc in/out

When the disc is placed into entrance of the ROM, the disc will be automatically slid into the player and content in the disc will be automatically played. In any mode, if to click button, the player will reject the disc.

Basic Operation

RES/RST window

This window is for reset. In case of fail of operation, press this (RES button) to make the system back to the initial state. (Gently press a small article with tip into reset hole for operation.)

DBAS bass of/off

Press this button to turn bass on, and press it again to turn bass off.

SD port

SD/MMC adopted for transmitting MP3/MP4/MP5/JPG file in the device at high speed.

AMS

In radio mode, long press this button to scan the radio, short press to glance over the radio channels.

EQ sound effect

Press this button to open sound effect interface, select sound mode or adjust the bass in front/back/left/right

SEEK

Revolve to control the next/former, long press this button to scan the radio.

GPS CARD

Support GPS data card

SD CARD

Insert and read SD memory card

In the playing status, short press to play the former one, or long press for 3 seconds to fast rewind with the speed of *8; short press to play the next one, or long press for 3 seconds to fast forward with the speed of *8

SETUP

Press this button to set the system.

Note: Please refer to original car buttons for operation. If there is no such a function, please use the touch screen and the remote controller to achieve the corresponding function,

Function Operation

6. Radio operation



(Fig.1) Turn on RDS interface



(Fig.2) Turn off RDS interface

Turn on the /SRC button; the machine will enter the radio interface automatically.

1. In the control interface, press BAND or RADIO button to enter radio interface, as shown in the above Figures.
2. Click BAND in the lower left quarter to switch between the wavebands: FM1-FM2-FM3-AM1-AM2.
3. Short press searching  icon to glance over the stations, long press  to search the stations and save 30 of them to the list.
4. Hand searches the stations to the list: find the station to the playing status, click  to save and replace the former saved stations.
5. Click  button, can both set stereo and single volume station searching mode.
6. Click  to set searching mode of long range and short range; set in long range searching mode can only receive the local strong signal stations; set in short range searching mode can receive the stations in local and other places.
7. Click  icon, appears the volume scrollbar, up/down move to control the lower/higher playing voice; click the under the  scrollbar to turn on and turn off the volume.
8. Click  to back to the main interface.
9. Click  to back to the upper level interface.
10. Click  icon to search stations by 0.5 MHz, press the icon and hold for 3 seconds to search the previous stations, searching will be stopped automatically when one station is found, Click  icon to search forward.

Function Operation

7. Main interface



Fig.1



Fig.2

Click  in every interface can switch back to the main interface, as shown in the above pictures.

The function in the main interface including: navigation, radio, TV, AUX, disc, Bluetooth, set up, USB1, USB2, calculator, game, I-pod, vehicle information, can visual and quick enter the function that you need.

8. Navigation Function Operation

Installation of GPS navigational module is required for operation of this function; otherwise the operation will become invalid.

Start the machine, press "NAVI" to enter navigational interface, (with GPS navigational card inserted and set up navigation path).

When first time to use navigation, first insert the navigational card into the SD port with a GPS logo, then set up navigation path, find the navigation file to confirm, as shown in the picture blow (Fig.1).

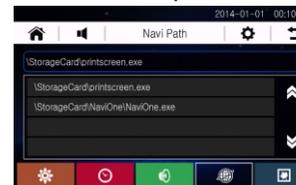


Fig.1

Press NAVI button, enter the navigation directly, and click OK in the navigation map notice, as shown in the picture below (Fig. 2), then you can enter the map. Select the corresponded map function

Function Operation

operation, and start the navigation, as shown in the picture below (Fig. 3).



Fig.2



Fig.3

In navigation mode, (Bluetooth is on) when there is a phone call come, it will notice you under the navigation map, and function like pick up with Bluetooth, hand over and control volume also include, as shown in Fig.3. Press the MODE button to quit from navigation and back to other playing status. During navigation mode, the screen can only operate in the navigation function, if you want to operate other functions, you must quit the navigations mode first.

When playing radio, DVD, Bluetooth and TV, if the system transfers to GPS navigation, continue the original music and video if without the voice prompt. When the navigation detects that the vehicle is about to make a turn, voice prompt will be made by the navigational system, at such time the system will switch over to the navigational interface automatically.

9. DVD Function Operation

(1) Insert disk and eject

Disk can be inserted or ejected at any conditions. Put the disk at the entrance and the machine will automatically insert the disks and meanwhile the screen will display the DVD state. To get the disks out of the machine, press the ▲ button on the panel or on the remote control, the machine will eject the disks automatically.

Function Operation

The disks are ejected automatically and stay at the entrance. The disks will be inserted automatically again if the disks stay at the entrance for 10 seconds.

Notes: Please purchase the original disks when using the system, the laser head in the machine will be damaged due to some severely scratched or low-quality disks, and also the system might be locked automatically. At such moment, pressing and holding the ▲ button for 3 seconds can force the disk to eject (such operations are still valid if the movement falls or misplaces).



Fig.1



Fig.2

Interface as shown in (Fig.1) will appear in the disks-reading state; then enter the interface as shown in (Fig.2), the interface is difference from the different disks (the disks must support this function):

(2) Description of disk-reading function

Put the disk into the machine, read automatically and play, click the screen, the DVD function menu shown, as shown in (Fig.3) (Fig.4) (Fig.5):



Fig.3



Fig.4

Function Operation

Click on the button, ,
 Click ▲ button, the disc will pop up, the disks will be inserted automatically again if the disks stay at the entrance for 5 seconds.
 Click ■ button once to stop playing and meanwhile the playing interface appears.
 Click ⏮ button to choose the previous track; click ⏪ button for backward by the speed of *8; click ⏩ button to choose the next track; click ⏭ button for fast forward by the speed of *8; click ⏸ button to pause playing; click ⏭ button to enter the next page.



Fig.5



Fig.6

Click ⏮ button, open/close play randomly;
 click ≡ button, back to the DVD play menu;
 click MENU button, enter the main menu of play function (disks must have this function);
 click ■ button, enter the interface (the disk must support the function);
 click 🎧 button, enter left/right/stereo surround sound / mono mixed sound /switch setting;
 click 🔍 button, playback screen multiple magnification and narrow, normal play;
 click 🔄 button, open/close repeat all and single loop.
 Click 📺 button on the left, pop up play brightness/contrast/color setting; click + button on the left, pop up screen movement function (the disk must support this function);
 click 📄 button on the right, pop up keyboard selecting playlist;
 click 🎵 button on the left, pop up sound selection;

Function Operation



Fig.7



Fig.8

Put the disk into the machine, read automatically and play, click the screen, the CD function menu shown, as shown in (Fig.7) (Fig.8) (Fig.9):
 Click 🎵 button, sound switch selection
 Click ▲ button, pop up the disc
 Click ⏮ button, back to the previous
 Click ⏸ button, pause the play
 Click ⏩ button, back to the next
 Click ⏮ button, enter to the random play
 Click 🎵 button, enter play list interface
 List of select music / video / photo



Fig.9

10. Bluetooth function operation
 (1) Function description

Open Bluetooth music on the main interface, enter the Bluetooth music interface, as shown in the picture on right (Fig.1). Bluetooth functions including Bluetooth phone, Bluetooth phone book, Bluetooth music, Bluetooth setup.



Fig.1

Function Operation



Fig.2



Fig.3

(2) Function and Description

Open the Bluetooth phone on the Bluetooth main interface as shown in the above(Fig.2), the Bluetooth not connected with a phone. Set your mobile phone to Bluetooth mode, and operate the mobile phone to search for the device named: 33:60:100:54:20:60, select the ID. Bluetooth pairing directive is needed, entering the password 0000 or 1234 and then connect with the main machine, the Bluetooth in the car will connect automatically, "matching" will be shown on the interface: entering the connected Bluetooth (Fig.3), your Bluetooth type is displayed below the connected Bluetooth ID; dial number: input the phone number that you need to call, click to call (if you have a double card mobile phone, please click to select and switch on your mobile phone or car phone; click to hand over, if you want to cut the Bluetooth connection, click icon, and click again to reconnect) .



Fig.4



Fig.5

Open Bluetooth phone book as shown in (Fig. 5), click to download the phone book in your mobile phone, the mobile phone will receive a remind of visiting phone book, press ok to download the phone book into the car

Function Operation

interface, as shown in (Fig.6); click to search phone numbers, and select phone number to call; click to delete all the numbers in the phone book. Note: Because of the numerous types of the mobile phones and their different kinds of software, some of the download phone books cannot display the name.



Fig.6



Fig.7

In the status of Bluetooth, touch to enter the function interface of call record (Fig.8), can touch the correspondent number for calling or deleting.

Touch will displace the answered calls record
 Touch will displace the dialed calls record
 Touch will displace the missed calls record
 Select one of calls, touch to delete one.



Fig.8



Fig.9

Bluetooth music function

When use the mobile phone to play MP3 music, you can switch to play MP3 with the car machine. This operation must under the condition of the Bluetooth connection between the two, or it cannot be realized. You can also control the playing through the car machine.

Function Operation

(3) Bluetooth characteristics

- ※ Direct talk with hand free mic.;
- ※ Phone talk switch over from Bluetooth hand free and the mobile phone;
- ※ Realize answering or dialing a call with function keys on the main unit;
- ※ Built-in volume control adjustment enables to freely adjust the volume;
- ※ Voice can be used to dial a call (It is a must for the mobile phone to be equipped with voice dialing function);
- ※ You are not required to hold the phone in hand while driving, and you can talk freely with the car Bluetooth;
- ※ You can drive with your hands benefiting safety and free of breaking rules, and keep away from electromagnetic radiation from the mobile phone as will.

(4) Matching conditions for Bluetooth

In the main menu, click BT button or select from MODE, enter Bluetooth interface.

In Bluetooth mode, power on the mobile phone supporting Bluetooth connection function. You can connect the mobile phone with the car main unit for achieving synchronous data exchange.

11. External Connection Input Operation

Click the AUX function at the main interface to enter external input mode, or MODE on the panel to switch over to input mode. Fig. 1 will appear without external input signal, full screen will display with signal.

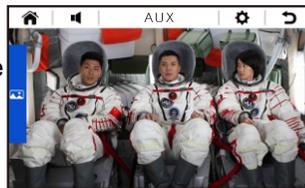


Fig.1

Connect the external video and audio input to the ports.

12. SD card operation

When you copy the audio format (MP3, WMA, AVI) to

Function Operation

the SD and insert them into the right ports, the machine will play the files automatically; the audio format takes priority over picture, movie or other formats (such as Fig 1). When insert SD, the screen will display loading.



Fig.1



Fig.2

- ※ Click button to switch sound effect
- ※ Click button, disc will pop up (there must be a disc in the machine, if there is no disc, this function has no effect)
- ※ Click button, return to the previous track
- ※ Click button, to the next track
- ※ Click button, pause the play, click again to play again
- ※ Click button, randomly play
- ※ Click button, back to SD play menu
- ※ Click button, screen multiple magnification and narrow, regularly play
- ※ Click button, open/close play all and single loop



Fig.3



Fig.4

During the playing of video,

Click button, back to SD play menu (Fig.3)

Click button, select the accordance sound play

Click button, select the accordance video play

Click button, select the accordance picture display

Function Operation

13. USB1/USB2 operation



Fig.1



Fig.2

When you connect the USB into the main machine, the main machine display loading...

When after the connecting loading, all the operations are the same with SD operation.

This system added two USB ports, so it can read more USB files at the same time. USB1 read MP3, video, pictures files; USB2 read MP3 and picture files.



Fig.3



Fig.4

14. Setting operation



Fig.1



Fig.2

Press SET at the main interface to enter the setting interface (Fig. 2) to set your habit of using: Any key

Function Operation

to set on the machine: set open and close; brake setting: set open and close, key tone setting: set open and close, automatically enter navigation: set open and close; GPS mix sound: set open and close; image time superposition: set open and close; GPS monitor: set open and close; automatic black screen time: 3min, 5min, 10min and cancel the setting; backlight brightness control: time headlamps optional setting; GPS signal: setting; language selection: English/Simplified Chinese/ Traditional Chinese/9 kinds of language selection; steering wheel setting; factory setting; system information; backlight settings; touch calibration.



Fig.3



Fig.4

GPS signal: GPS searching status, as shown in (Fig. 5) Language setting: select the language of your Country. Click the language and select the icon, can pop up language for selecting, system default multi language, this function can select the system language according to different customers, as shown in (Fig. 6).



Fig.5



Fig.6

In system information, you can check the configuration, software version and machine capacity, GPS port

Function Operation

(Fig 7); set the background light: can be set to the day mode and the night mode, so as to make the machine more comfortable with eyes.



Fig.7



Fig.8

Touch calibration: Touch Calibration function button, the screen will display Whether to start touch calibration, select Yes to start calibration operation.(Fig 9).

Use the touch pen to click the central point of cross cursor, the cross cursor will move to the upper left corner; lick the central point of cross cursor again, the cross cursor will move to the lower left corner, and as such until the cross cursor finally moves to the lower left corner when the calibration operation finishes and the system goes back to the setting menu automatically.

Notes: Deviation for the touch location can be corrected by Touch Calibration. During the touch calibration, the central point of cross must be accurate; otherwise the touch accuracy will be badly influenced.

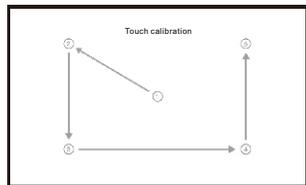


Fig.9



Fig.10

Function Operation

Factory setting: click >>> the screen display as shown in (Fig. 10), input the password “3368” “3368” “3368” “3368”, click “OK” after selection, enter the interface of factory setting (Fig. 12): selecting vehicle logo/volume balance/radio setting/reversing image adjustment/ reversing mirror/RDS enable/ radio antenna switch/ reverse backstage tone/IPOD switch/ radar display/ reversing trajectory display /TV type/USB switch/ type selection.



Fig.11



Fig.12

Open the logo selection, display logo settings interface, as shown in (Fig. 13), and select the logo icon, the icon displayed to the right, back to finish setting.

The logo icon can be selected from GPS card, find the corresponding picture, confirm and complete.

Open the volume balance, such as (Fig. 14), set volume balance on the right of the corresponding function .



Fig.13



Fig.14

Enter into reversing image adjustment: brightness of the 1-20; contrast and color, as shown in (Fig. 15)

Radio setting: can realize FM sensitivity adjustment, AM sensitivity adjustment; sensitivity standard and manual setting; radio regional settings, can choose 5 different listening areas (Fig. 16).

Function Operation



Fig.15



Fig.16

Enter reversing mirror: Open or close; RDS start: open or close; wire antenna switch: open or close; reverse back stage tone: open or close; Ipod switch: open or close; radar display: open or close, the car automatically identify characters of radar detection is on, to prevent collision, do not detect when it closed; reversing trajectory display: open or close; TV type: can choose to install digital TV or analog; USB switch: you can set and choose single or double USB function.



Fig.17



Fig.18

Vehicle mode selection: click the Agreement Setting, this machine has multiple protocol options, select the appropriate protocol, make the machine operation more stable (Fig.19), CAN panel / leveled distribution, panel can be set as default.



Fig.19



Fig.20

Function Operation

Time setting: click on the button, time setting interface display (Fig.20), open the automatic synchronous switch button, automatic time synchronization adjustment to the present time (need GPS support, the host machine is connected with a GPS antenna).

This interface has year-month-day, hour, minute, slide up and down to choose.



Fig.21



Fig.22

Sound settings: click this button, there will be a interface of time setting, such as (Fig.21), open public switch, to achieve open sound;

You can choose the right standard of sound effect, pop, soft, film, heavy metal, and rock, classical and so on; Click on the small horn button (🔊), display the sound field, set the interface, driving mode, deputy driving mode, back area of the car, the whole car model can be set and selected; can also manually move the 👤 icon for field settings..



Fig.23



Fig.24

Function Operation

In the background settings, you can change the interface map style, choose your favorite map for settings: you can use the map in the machine from the factory, you can also read a GPS card, choose or produce your own picture as the base map (Fig.24) .

In the picture selection, you can toggle the screen up and down, to achieve the election of Map style from page to page.



Fig.25



Fig.26

The vehicle must be equipped with steering wheel control function; you can control part of the main functions through the keys on the steering wheel. Put the steering wheel control wiring plug into the machine adapter socket during installation.

The steering wheel setting: set your habits on the steering wheel; the steering wheel connected to the machine system, press the button on the steering wheel to match the system function. (Notes: only can set the existing function of the machine, sound +-, menu navigation, search+-, dial and hang up, mute, power switch, mode), these functions set according to the needs of the individual (Fig.26)

According to the above operation orders, click ✓ icon after setting, now, set function has been preserved in the square lattice.

If you input it wrong, please click the ✕ icon, do all of the above again.

15.IPOD Play

Touch ipod mode at the main menu interface to enter the functional interface, (as shown in Fig.1)

Click ⏮ button, back to the previous track

Click ⏸ button, pause the play

Function Operation

Click ⏭ button, back to the next track

Click 🎲 button, randomly play

Click 🔁 button, open/close repeat all and single loop

Click ☰ button, enter play list interface



Fig.1

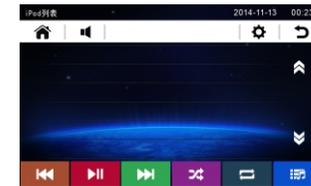


Fig.2

In the play list: click ⏮ to play the previous one, click ⏭ to play the next one, click ⏸ to pause the play, click this button again to replay; click ▲ to view the upper list upward, click ▼ to view the list downward.

16. Game operation

Click on the game icon at the main interface; enter the game interface, as shown in the picture on the right: select Gobang icon or Lianliankan icon, enter the corresponding game.



Fig.1

17. Calculator operation

This function is the realization of the arithmetic work in a vehicle.

There are four simple operations: add, subtract, multiply, divide.

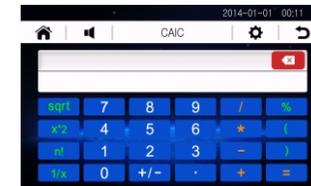


Fig.1

Function Operation

18. Function Declaration of Remote Control

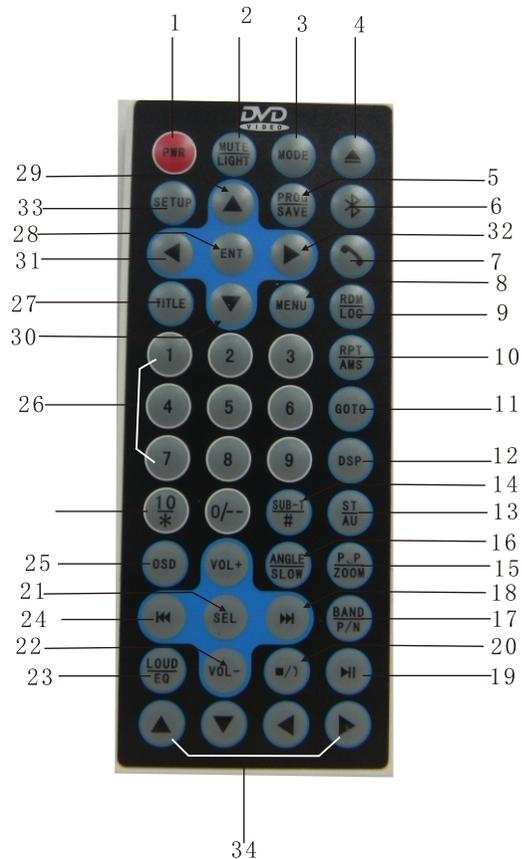
No.	Function and Symbol	Function List
1	Power supply	Power button: Press this button to power it on or off.
2	Mute/Backlight	Shortly press this button to turn volume off, and press it again to recover the original volume level. Press and hold it to turn on/off TFT screen backlight.
3	Mode	Press this button to switch function modes in turn.
4		Press this button to eject the disc.
5	Program/Memory	During reading the disc, press this button for program play; in radio/TV mode, press this button to store the current station.
6		Press this button to switch to Bluetooth mode.
7		Press this button to answer the phone call.
8	Menu	Press this button to enter disc menu to play.
9	Random/Near/Fa	During playing the disc, it is used for randomly playing music. In radio mode, press this button for switchover of near and far.
10	Repeat/AMS	During playing the disc, it is for repeatedly playing the music. In radio mode, shortly press this button to browse the stored stations, press and hold it for automatic searching the stored stations.
11	Time	Press this button to learn exact position of the current disc being played.
12	Clock	Press this button to set up the current time.
13	Stereo/Track	In radio mode, press this button to set up stereo and single track, and in playing mode to press it for switchover of left and right track.
14	Caption/#	During playing a DVD disc with multiple captions, repeatedly press this button to display or delete the caption on the screen, and symbol # for dialing a call.
15	P. P/Zoom	When playing a disc, repeatedly press this button to zoom out or in the sequence: X2, X3, X4, X1/2, X1/3, X1/4 and off.
16	Angle/Slow motion	When playing the DVD disc with multiple angle contents, shortly press this button to set up different angle for watching. Press and hold it for 1/2, 1/4, 1/6, 1/8 and slow motion playing, and press it again to recover the playing.
17	Waveband/System	In radio mode, press this button to switch waveband. In TV/video mode, press this button to switch video system.
18		In playing a disc mode, shortly press this button to select the previous, press and hold it for fast forward. In radio mode, shortly press this button to tune radio station steadily forwards, press and hold it for automatic searching of radio stations. In TV mode, shortly press this button to tune frequency steadily forwards, press and hold it for automatic searching of frequency.

Function Operation

No.	Function and Symbol	Function List
19		In play state, press this button for pause.
20		In play state, press once for stop-to-be, and press it again for entire stop.
21	Option	Press this button for individual sound setup, volume, bass, treble, left and right, front and back speaker sound effect setup.
22	Vol+/Vol-	Press this button to increase or decrease volume.
23	Loudness/Sound effect	In play state, short press this button for switchover among functions of classical, popular and rock. Press and hold this button for turning on or off loudness.
24		In playing disc state, shortly press this button for backward selection. Press and hold this button for fast forward; In radio mode, shortly press this button for steady backward tuning of radio station, and press and hold this button for automatic station searching. In TV mode, shortly press this button for steadily backward tuning of frequency, and press and hold this button for automatic channel searching.
25	Display	Disc play state is shown at upper part of the screen.
26	Numeric key	Directly select music/radio state/TV channel. Number and symbol button for using Bluetooth function.
27	Caption	When playing a disc with a list, press this button to display all titles of the music.
28	OK	Press this button to confirm menu or operation directive.
29		In the menu, press this button for move cursor upwards.
30		In the menu, press this button for move cursor downwards.
31		In the menu, press this button for move cursor leftwards.
32		In the menu, press this button for move cursor rightwards.
33	Setup	During playing a disc, press this button to enter system setup menu.
34		This button can be used for adjusting in direction of up/down, left/right. Note: This is available on the player with sliding panel.

Function Operation

19. Remote Control Function Diagram



20. Common and Simple Troubleshooting

In case of any failure with the player, please firstly power it off- Turn it on several minutes later. If it is normal after reset , you can operate normally; if problem kept unsolved, please check and repair it in the following steps:

Problem and operation

Failure	Reason and Repairing Methods Recommended
No power supply	1/Check if connecting cable is reliably connected; 2/If car key is inserted and pushed to on position;
No image/no color	1/Check if the video cable from the main unit to the display is reliably connected; 2/If having adjusted brightness and chroma to a proper level; 3/In case of nor color on the externally connected TV, check if TV system is correctly set;
Image with break or skip color block	1/Poor quality of the disc or scratched disc. Use a disc at good quality
No sound from the speaker during playing	1/If output cable is correctly connected; 2/If it is mute mode.
No sound from other connected devices	1/Check if all external devices are connectedly connected; 2/Check input state of the related device.
Fail in changing track	1/Some of the discs are with only one audio setup.
No caption displayed	1/This function depends on if the disc is with the function available; 2/If caption function is turned on.
Function fail of remote controller	1/Check if the rubber sheet of the battery is removed; 2/Check if it is low in the remote controller; 3/Aim at the remote controller receiving window of the player.
No signal or low signal for TV to receive	1. If the antenna is at a correct position or if the local signal is strong enough.

21. Technical Parameters

Performance indexers

Power supply	DC INPUT 10.8 - 14.4V
Power	45WX4
Standby current	<10mA

Problem and operation

DVD technical parameters

Laser head	SHARP HPD-60
Disc format	MPEG-4 (DIVX), DVD, VCD, CD, MP3, WMA, JPEG CD, CD-R, CD-R/W, DVD+R/-R
Vibration resistance performance	DVD, VCD, CD 10 seconds, MP3 180 seconds
Frequency response	20HZ - 20KHz
Audio S/N ratio	≥80dB
Dynamic range	≥80dB
Video output level	1.0V ±0.2Vp-p
Brightness S/N ratio	>56dB
Chroma S/N ratio	>60dB
Video system	PAL/NTSC
Menu language	Chinese/English/French/Spain/Portuguese/Germany/Russian

LCD technical parameters

LCD	TFT LCD
Aspect ratio	16:9
Pot pitch	0.342 (H) X 0.33 (V)
Resolution	800 (B. G. R) X 480
Contrast	150:1
Brightness	300cd/m ²
Response speed	R:30/F:50
View angle	U: 15 D: 35 L/R: 55
Image aspect	16:9
Light emitting source	CCFL
Lamp tub lifespan	30,000 hours

Problem and operation

FM frequency range	87.5MHz-108MHz
AM frequency range	522KHz-1620KHz
FM sensitivity	≤12dBu
AM sensitivity	≤28Bu
Signal-to-noise ratio	≥50dB
Distortion	≤2%

Note: There will be no notice if the machine upgrade and the technical specifications update.

Packing List

Packing List

<input type="checkbox"/>	A main engine	<input type="checkbox"/>	AAUX transfer line
<input type="checkbox"/>	A set of install frame (with 4-10 screws)	<input type="checkbox"/>	A radio joint
<input type="checkbox"/>	A remote control	<input type="checkbox"/>	A digital TV antenna
<input type="checkbox"/>	A manual of instruction	<input type="checkbox"/>	A USB line
<input type="checkbox"/>	A warranty card	<input type="checkbox"/>	A GPS antenna
<input type="checkbox"/>	A Certificate	<input type="checkbox"/>	A special protocol agreement box
<input type="checkbox"/>	A manual of installation process	<input type="checkbox"/>	A horn
<input type="checkbox"/>	A touch pen	<input type="checkbox"/>	A group of car tail line
<input type="checkbox"/>	A careland map instruction	<input type="checkbox"/>	A group of RCA audio output line
<input type="checkbox"/>	ARITU map instruction	<input type="checkbox"/>	A TV antenna
<input type="checkbox"/>	ARITU map card	<input type="checkbox"/>	A group of video output line
<input type="checkbox"/>	A careland map card	<input type="checkbox"/>	IPOD transfer line
<input type="checkbox"/>	A decorative sheet	<input type="checkbox"/>	A Radio relay line
<input type="checkbox"/>	A frame	<input type="checkbox"/>	A group of line to connect the main engine to the screen
<input type="checkbox"/>	A CDC transfer line	<input type="checkbox"/>	A back Bluetooth microphone line
<input type="checkbox"/>		<input type="checkbox"/>	

Note : The packing list is equipped based on the actual function of the machine, a "✓" symbol in the "□" indicates that this machine is equipped with this function.