

Entertainment System

Instruction Manual

Model: DV3100S



* Product picture is for reference only.

Welcome

Thank you and congratulations for purchasing this Furrion® DV3100S Entertainment System. Before operating your new product, please read these instructions carefully. This instruction manual contains information for safe use, installation and maintenance of the product. Please keep this instruction manual in a safe place for future reference. This will ensure safe use and reduce the risk of injury. Be sure to pass on this manual to new owners of this product.

The manufacturer does not accept responsibility for any damages due to not observing these instructions.

If you have any further questions regarding our products, please contact us at **support@furrion.com**

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier

Trade Name: Furrion

Model No.: DV3100S

Responsible Party – U.S. Contact Information

Furrion Innovation Center & Institute of Technology

52567 Independence Ct., Elkhart, IN 46514, USA

Toll free: 1-800-789-3341; Email: support@furrion.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Important Safety Instructions

Safety



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚠ WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Class 1 Laser Product

Laser product symbol:

Located on the rear panel of the unit, this symbol indicates this unit is a class 1 laser product. Only use weak laser and no hazardous radiation outside of the unit.



1. Read through this instruction manual before installation and use.
2. Do not touch the power plug with wet hands.

3. Switch off the power when the unit is not in use. (Disconnect the power plug from the power outlet when you do not intend to use the unit for a prolonged period of time.) Before moving the unit, remove the disc from the unit/tray first.
4. Do not open the cover or touch any of the components inside of the unit. Only a qualified technician should service the unit.
5. To avoid damaging the unit, do not expose the unit to direct sunlight or objects that radiate heat.
6. Do not place the unit in moist or humid conditions. Moisture will affect normal operation and damage the unit.
7. Place the unit on a flat, well-ventilated location. Please ensure the ventilation holes are not covered to avoid overheating and malfunction.
8. Clean the panel and case with a soft dry cloth only. Do not apply any kind of thinner, alcohol or sprays.
9. The apparatus should not be exposed to dripping or splashing. Do not place objects filled with liquids (such as vases) on the apparatus.

⚠ WARNING

- Do not ingest the battery contained within the remote control supplied with the unit as this battery represents a chemical burn hazard.
- This product contains a coin/button cell battery.
- If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Important Safety Instructions

⚠ CAUTION

- Danger of explosion if battery is incorrectly replaced.
- Replace only with the same or equivalent battery type.
- The battery should not be exposed to excessive heat such as sunshine or fire.

- Relocate the receiving antenna.
- Increase the separation between equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice of compliance

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

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

FCC rules

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

All registered and unregistered trademarks are property of their respective owners.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Thank you for purchasing a Furrion Product, we hope you will enjoy using our product. For maximum enjoyment please look through the following manual to learn about all the features of your Furrion Stereo.

Introduction

What's in the box

Thanks for purchasing the Furrion DV3100S Entertainment System. This manual will help you set up and begin using your product. Please read this manual thoroughly and keep this manual in a safe place for future reference.

First, check the contents of your box with the parts checklist below:

- DV3100S Unit
- Remote Control
- Wire Harness
- Hang Tag
- Quick Start Guide
- Warning Card
- Warranty Manual

Precautions

Connect this unit to a 12V DC negative ground battery system which is standard in North American and European vehicles.

When installing the unit, ensure that all wire ends not in use are insulated to avoid short circuit or earthing which can lead to the risk of fire or electrical shock.

Avoid inserting foreign objects into the disc loading slot of the unit as this will cause malfunction.

Do not expose this unit to moisture or wet environments. If condensation is present on the screen, wait for 1 hour or more for the moisture to evaporate.

If the interior of the vehicle is extremely hot, do not use the unit until the vehicle's internal temperature has cooled down.

Do not use cleaning products on the front face of the unit. Only use a slightly damp cloth for cleaning.

Do not attempt to disassemble or adjust this unit. Contact a service center for assistance.

Features

- Digital AM/FM tuner
- DVD/CD-R/RW/MP3/MP4 compatible
- Bluetooth
- Auxiliary video/audio inputs on front
- RCA L/R audio inputs on rear
- USB input with charging function
- HDMI input on front
- 2 zone multi room audio output
- 2 x RCA audio/video outputs for connecting 2 additional TVs
- 1 x subwoofer output
- Clock

Introduction

- Microphone on front

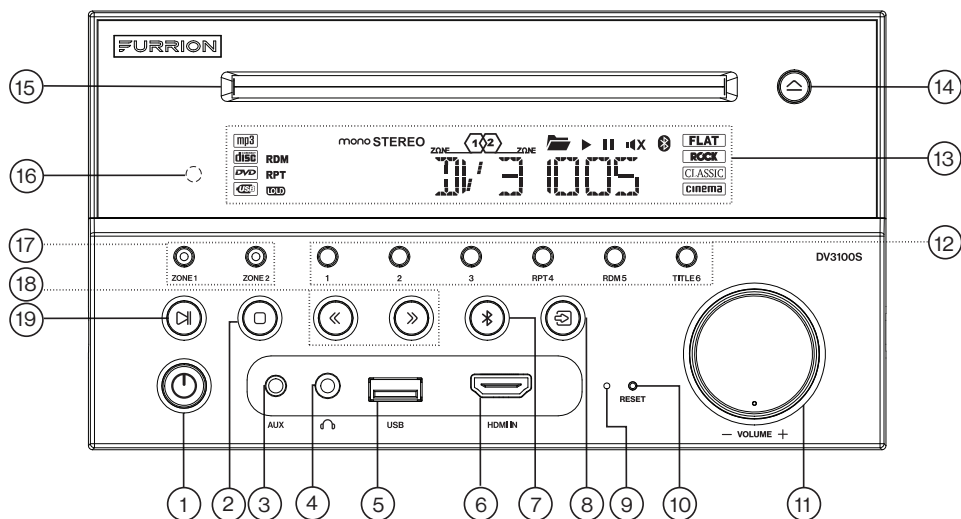
Supported Format

Supported Video Format					
File Extension	Container	Video Codec	Audio Codec	Resolution	Remark
.avi .divx	AVI	MPEG-4 Visual DivX 4.xx/5.xx/6. xx/3ivX XviD MPEG-1	Dolby Digital (AC3) PCM/LPCM AAC-LC (2ch) MPEG-Audio (MP1/MP2/MP3)	720 x 480 (30fps) 720 x 576 (30fps)	
.mpg	MPG	MPEG-1/MPEG-2	Dolby Digital (AC3) LPCM MPEG-Audio (MP1/MP2/MP3)	720 x 480 (30fps) 720 x 576 (30fps)	
.dat	DAT	MPEG-1/MPEG-2	Dolby Digital (AC3) LPCM MPEG-Audio (MP1/MP2/MP3)	720 x 480 (30fps) 720 x 576 (30fps)	
.vob	VOB	MPEG-1/MPEG-2	Dolby Digital (AC3)	720 x 480 (30fps) 720 x 576 (30fps)	
.mp4	MP4	MPEG-4 Visual	Dolby Digital (AC3) PCM/LPCM AAC-LC (2ch) MPEG-Audio (MP1/MP2/MP3)	720 x 480 (30fps) 720 x 576 (30fps)	
Supported Audio Format					
File Extension	Audio Codec		Bit Rate	Sampling Rate	Remark
.mp3	MP3		16kbps - 320kbps	8k - 48kHz	

Note: Compatibility with the above file formats is not guaranteed.

Functional Overview

Control Panel



1

Turn on the unit or switch to standby mode.

2

Stop playback.

3 **AUX socket**

Connect to the 3.5mm video / audio output socket on an auxiliary device.

4 **socket**

Connect a headphone.

5 **USB socket**

Connect a USB storage device or charging device.

6 **HDMI IN socket**

Connect to the HDMI output socket on an AV device.

7

Switch to the Bluetooth sound source.

8 **INPUT MODE**

Select the corresponding sound source: AM/FM, DISC/USB, BT, AV IN, AUX or HDMI mode.

9 **Built-in microphone**

10 **RESET**

Reset the unit and load its factory default settings.

11 **VOLUME -/+ knob**

Turn the knob clockwise / counterclockwise to increase / decrease volume.

12 **Number buttons (1 - 6)**

Select and enter numbers.

RPT4: Select repeat playback mode.

RDM5: Select random playback mode.

TITLE6: Display the title list during DVD/ VCD playback.

13 **LCD screen**

14

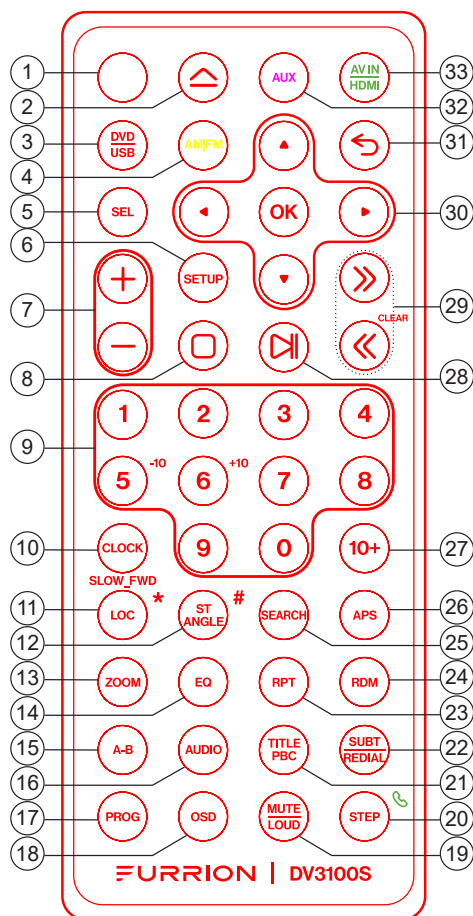
Eject the loaded disc.

Functional Overview

- 15 **Disc slot**
- 16 **IR sensor for remote control**
- 17 **ZONE 1 / ZONE 2**
Turn on or off the audio source in each of the different areas where your speakers are connected.











- 18 **⏮/⏭**
Fast backward/forward within a chapter / track.
Tune to a radio station.
- 19 **⏮**
Start (resume) / pause playback.

Remote Control



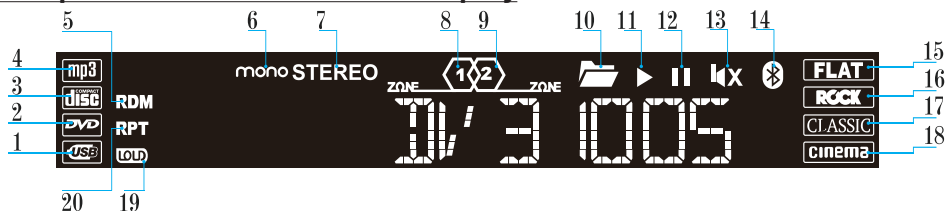
- 1 Turn on the unit or switch to standby mode.
- 2 **Eject**
Eject the loaded disc.
- 3 **DVD/USB**
Switch to the DVD/USB sound source.
- 4 **AM/FM**
Switch to the AM/FM sound source.
- 5 **SEL**
Select various system settings.
Select a preset sound effect.
- 6 **SETUP**
Access or exit the DVD system menu.
- 7 **+/-**
Increase / decrease volume.
- 8 **Stop**
Stop playback.
- 9 **Number buttons (0 - 9)**
Select and enter numbers.
5/-10: Skip 10 tracks backward during MP3 playback.
6/+10: Skip 10 tracks forward during MP3 playback.
- 10 **CLOCK**
Enter clock setting mode.
Display the clock.

Functional Overview

- 11 LOC/SLOW.FWD/***
In radio mode, enable or disable local mode.
During disc playback, select a slow forward speed.
- 12 ST/ANGLE/#**
In FM mode, switch between stereo and mono sound output.
During DVD playback, adjust the viewing angle (if available).
- 13 ZOOM**
During DVD/VCD playback, zoom in / out on images.
- 14 EQ**
Select a preset EQ sound effect.
- 15 A-B**
Play a specific segment in a chapter / track repeatedly.
- 16 AUDIO**
Select a subtitle language (if available) during DVD playback.
Select a sound mode (MONO LEFT, MONO RIGHT, or STEREO) during VCD playback.
- 17 PROG**
Access or exit program playback.
- 18 OSD**
Display the playback status.
- 19 MUTE/LOUD**
Mute or un-mute the audio output.
Enable or disable the loudness effect.
- 20 STEP/ **
Play a DVD/VCD frame by frame.
Accept or make a call.
- 21 TITLE/PBC**
Display the title list during DVD/VCD playback.
Turn on / off PBC (PlayBack Control) of a disc (if available).
- 22 SUBT/REDIAL**
Select the caption language during DVD playback (if available).
Redial the last dialed number.
- 23 RPT**
Select repeat playback mode.
- 24 RDM**
Select random playback mode.
- 25 SEARCH**
Show or hide the search window during disc playback.
- 26 APS/**
Start automatic programming of radio stations.
Scan preset radio stations.
Reject or end a call.
- 27 10+**
Input a number larger than 9.
- 28 **
Start (resume) / pause playback.
- 29  /  (CLEAR)**
Skip to the previous/next track.
Fast backward / forward within a track.
Tune to a radio station.
 (CLEAR): Clear a wrong input.
- 30 Navigation buttons**
 /  /  / : Navigate in a menu.
OK: Confirm your selection.
- 31 **
Return to the previous menu.
- 32 AUX**
Switch to the AUX sound source.
- 33 AV IN/HDMI**
Switch to the AV IN/HDMI sound source.

Functional Overview

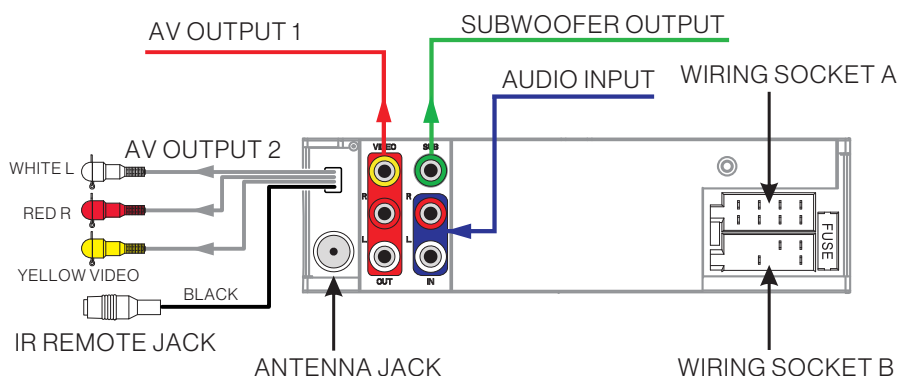
Description of icons on the LCD display



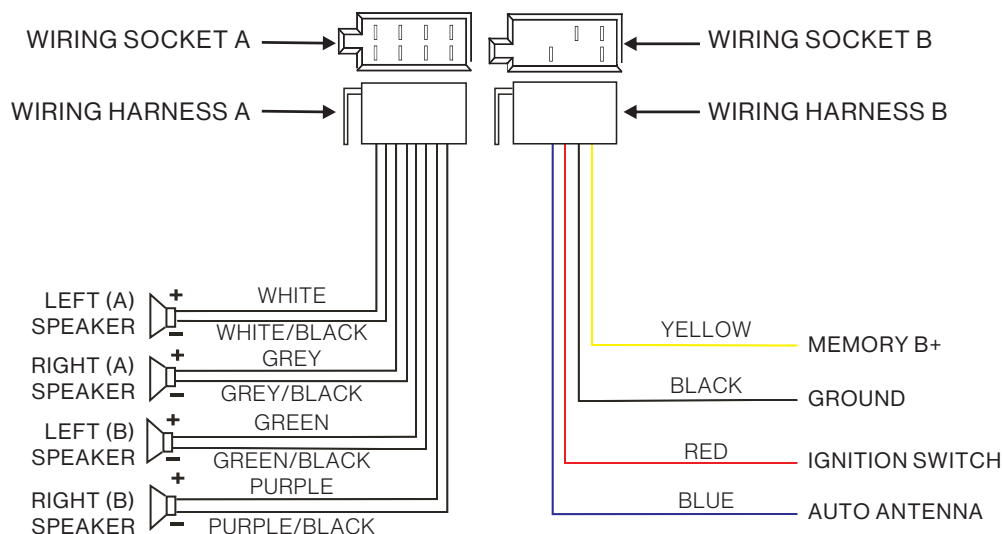
No.	Icon	Description
①	USB	Lights up when a USB storage device is connected.
②	DVD	Lights up when a DVD is loaded.
③	DISC	Lights up when a disc (DVD,VCD,CD) is loaded.
④	MP3	Lights up when a loaded disc or connected USB storage device contains MP3 files.
⑤	RDM	Lights up during random playback.
⑥	MONO	Lights up in mono audio mode.
⑦	STEREO	Lights up in stereo audio mode.
⑧	ZONE <1>	Lights up when ZONE 1 speakers are selected.
⑨	ZONE <2>	Lights up when ZONE 2 speakers are selected.
⑩	FOLDER	Lights up when a connected USB storage device contains more than 2 folders with playable files.
⑪	▶	Lights up during disc or USB playback.
⑫	⏸	Lights up when disc or USB playback is paused.
⑬	⏸	Lights up when sound output of the unit is muted.
⑭	BLUETOOTH	Lights up after successful Bluetooth pairing and connection.
⑮	FLAT	Lights up when the flat audio mode is selected.
⑯	ROCK	Lights up when the rock audio mode is selected.
⑰	CLASSIC	Lights up when the classic audio mode is selected.
⑱	CINEMA	Lights up when the cinema audio mode is selected.
⑲	LOUD	Lights up when the loud audio mode is selected.
⑳	RPT	Lights up during repeat playback.

Before Operation

Wiring Diagram

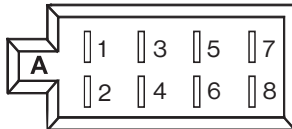


The Description of the Wiring Diagram for Socket A and Socket B



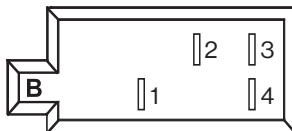
Before Operation

Wiring Connecting Socket A View



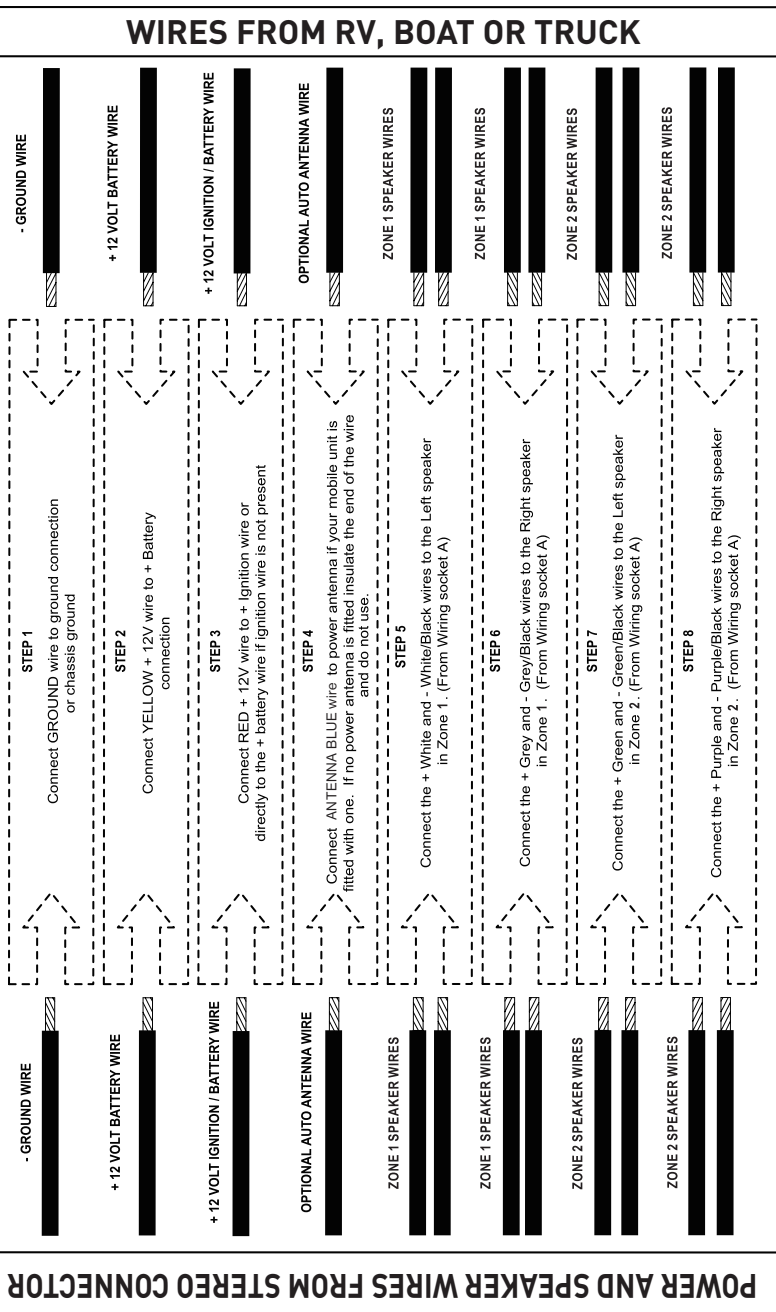
Pin No.	Color	Function
①	Purple	Right (B) Speaker (+)
②	Purple/Black	Right (B) Speaker (-)
③	Grey	Right (A) Speaker (+)
④	Grey/Black	Right (A) Speaker (-)
⑤	White	Left (A) Speaker (+)
⑥	White/Black	Left (A) Speaker (-)
⑦	Green	Left (B) Speaker (+)
⑧	Green/Black	Left (B) Speaker (-)

Wiring Connecting Socket B View



Pin No.	Color	Function
①	Yellow	+12V DC Memory B+
②	Blue	Auto Antenna
③	Red	+12V DC Ignition Switch
④	Black	Power Ground (-12 DC)

Before Operation



Before Operation

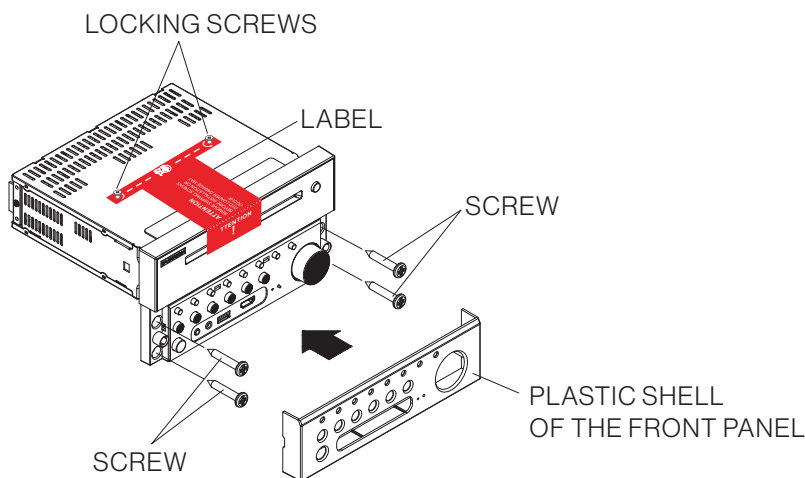
Mounting Installation

Location

1. Choose a mounting location away from humid areas, water sources, appliances or any equipment that can radiate heat.
2. Select an area on a wall or cabinet which is free from cable, fuel or brake lines and ensure the area behind the wall mount stereo has a vent hole or if it is an enclosed box and has adequate room around the rear of the unit for cooling.
3. Ensure when the stereo is mounted in the cut out that the wires at the rear of the unit are not pressed against the heat sink.

Installing the unit

1. Before finally installing the unit, connect the wiring temporarily and make sure the unit and the system work properly.
2. Unscrew the locking screws and fix the unit with screws according to following diagram.
 - Unscrew the locking screws only by screw driver and remove the attention label before installation.
 - Remove plastic shell of the front panels from the unit.
 - Fix the unit with 4 pieces #8 pan head self tapping screws.
 - Put back plastic shell of the front panel to the unit.



Before Operation

Prepare the Remote Control

1. Before using the remote control for the first time, pull the insulating sheet out of the remote control in the direction indicated by the arrow. (Fig.1)

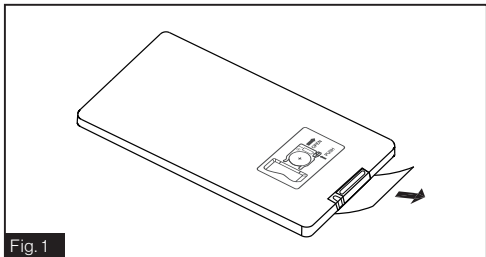


Fig. 1

2. Press the movable block hold in the direction indicated by the A arrow (Fig.2), then pull the battery holder out of the remote control as the direction indicated by the B arrow. (Fig.2)

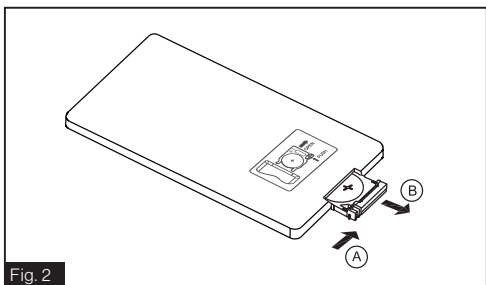


Fig. 2

3. Replace the old battery with a new battery with (+) polarity side upward. (Fig.3)
4. Insert the battery holder to the original position in remote control. (Fig.3)

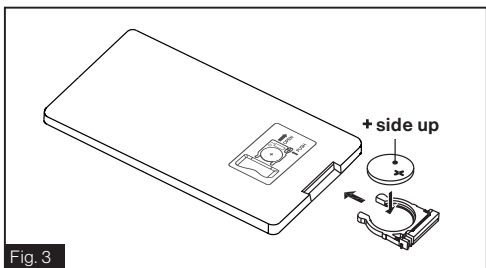


Fig. 3






Remote control battery note

1. Improper use of a battery may cause overheating or an explosion that could result in injury or fire.
2. Battery leakage may cause damage to the remote control. Battery Life: 6 months with normal use in normal room temperature.
3. Do not short the battery.
4. Do not throw the battery into the fire.
5. To avoid the risk of accident, keep the battery out of reach of children.



Operation

Quick Reference Guide

General Operation









Power on/off, switch to standby mode	Press  to turn the unit on or enter standby mode. Press and hold  to turn the unit off.
Mute	Press MUTE  on the remote control to mute sound. The icon  flashes on the display. Press MUTE  again to restore the sound.
Select a source	Press  once or more to select Tuner (AM/FM), Disc (with a disc loaded), USB (with a USB storage device connected), BT, AV IN, AUX or HDMI mode.
Adjust volume	Rotate the VOLUME -/+ knob to adjust volume.
Select a feature / setting	1. Press SEL on the remote control (or push the VOLUME -/+ knob on the front) once or more to select VOL, BAS (without EQ preset), TRE (without EQ preset), BAL, EQ, or BEEP. 2. Rotate the VOLUME -/+ knob on the front panel to select a feature / setting.
Select a preset EQ	Press EQ on the remote control once or more directly (or push the VOLUME -/+ knob on the front panel once or more to activate EQ mode and then rotate the VOLUME -/+ knob) to select EQ, CINEMA, ROCK, CLASSIC, or FLAT. The sound effect will change accordingly.
Set clock	1. Press and hold CLOCK on the remote control to enter clock setup mode. 2. Rotate the VOLUME -/+ knob to adjust the hour. 3. Press the VOLUME -/+ knob to enter minute setting. 4. Rotate the VOLUME -/+ knob to adjust the minute. The time on the clock is set automatically after a few seconds of inactivity.
Turn on / off loudness effect	Press and hold LOUD  button on the remote control to turn on or off MUTE LOUD mode.
Select speakers	Press and hold ZONE 1 / ZONE 2 to select speaker output. The corresponding zone number will be displayed on the LCD once selected.
Reset	Press RESET with a sharp object to reset the unit and load its factory default settings.

Bluetooth Operation












Accept or make a call	Press  to accept an incoming call, or dial or redial a telephone number.
Reject or end a call	Press  to reject or end a call.

Operation

Radio Operation

Select radio region	Press and hold  for 5 seconds to set the AM/FM radio region (Europe/USA1/USA2/AUSTRALIA).
Manual tuning	Press  /  to move the radio frequency down or up one step at a time.
Automatic tuning	Press and hold  /  to search for the next strongest station automatically.
Select a band	Press and hold  on the front panel or press AM/FM on the remote control to select FM1, FM2, FM3, AM1, or AM2.
Store and recall a preset station	Press and hold any one of the six preset buttons (1-6) to store the current frequency. Press the corresponding preset number button to recall the stored frequency.
Store stations automatically	Press and hold APS on the remote control (or  on the front panel) to automatically store the six strongest stations in the current band. Up to 18 FM stations and 12 AM stations can be stored.
Scan preset stations	Press APS on the remote control (or  on the front panel) to scan presets 1-6 on the current band.
LOC	Press LOC on the remote control to turn on / off the LOC (local) function.
Stereo/mono	In FM mode, press ST ANGLE on the remote control one or more to select stereo or mono sound output.


Disc / USB Operation

Insert a disc	With the label facing up, insert a disc into the disc slot. The disc will automatically begin playback.
Eject the disc	Press  to eject the disc.
Select a chapter / track	Press  /  to skip to the previous or next chapter / track.
Fast backward / forward	Press and hold  /  to fast backward / forward.
Pause playback	Press  to temporarily stop playback. Press  again to resume playback.
Stop playback	Press  once to pause playback. Then you can press  to resume. press  twice to stop playback. Then press  to start playback from the beginning of the first chapter / track.
Repeat	Press RPT to play the current chapter / track repeatedly. Press RPT again to resume.
Random	Press RDM to play each track in random order. Press RDM again to resume.
Title	In DVD/VCD mode, press TITLE PBC on the remote control to display the title list.

Operation


Common Operation


Turn the unit on or switch to standby mode

Press  to turn the unit on or switch to standby mode.

Selecting a Source


1. Use on the front panel

Press  repeatedly to select Tuner (AM/FM), Disc (After inserting a disc), USB (After inserting a USB storage), BT, AV IN, AUX or HDMI mode.

Note: Press  to enter into the Bluetooth mode directly. Press again to back to current playback mode. When HDMI source was selected, the video of HDMI will be output from the video out both AV1 and AV2.

2. Use the corresponding buttons on the remote control

DVD / USB - Once a DVD is inserted into the unit, the unit will automatically switch to display this source menu. once a USB is inserted into the unit, Then Press this function button on the remote control to select USB as a sound input mode.

AM / FM - Press and hold this button on the remote control to scroll through FM1, FM2, FM3, AM1, and AM2. To switch between USA and Europe radio regions, press and hold  on the front panel for 5 seconds until the region is displayed on the screen.

AUX - Press this button on the remote control to select the AUX inputs available for the unit.

AV IN / HDMI - Press this button on the remote control to scroll through the AV IN / HDMI inputs available for the unit.



- **AV IN** - Connection on the rear of the unit to connect an external audio source.

- **HDMI** - Connection on the front of the unit to connect an external HDMI OUT device.

Adjust volume

Rotate the **VOLUME -/+** knob clockwise to increase volume, rotate anticlockwise to decrease volume.

Mute

1. Press **MUTE**  to mute sound output in any source mode. 'MUTE' will be displayed on the screen.
2. Press **MUTE**  again to resume.

Display and set the clock

1. To display the clock on the LCD display, press **CLOCK** button on the remote control.
2. To adjust or set the clock, press and hold **CLOCK** on the remote control to enter clock setup mode.
Rotate the **VOLUME -/+** knob on the front panel (or press **+/-** on the remote control) to adjust the hour.
Press the **VOLUME -/+** knob on the front panel (or press **SEL** on the remote control) to enter minute setting.
Rotate the **VOLUME -/+** knob (or press **+/-** on the remote control) to adjust the minute.
The time on the clock is set automatically after a few seconds of inactivity.

Select a preset EQ mode

Press **EQ** on the remote control once or more directly (or push the **VOLUME -/+** knob on the front panel once or more to active EQ mode, and then rotate the **VOLUME -/+** knob) to select EQ, CINEMA, ROCK, CLASSIC, or FLAT).

The sound effect will change accordingly.

Operation

To turn on / off LOUD mode

Press and hold **LOUD** MUTE LOUD on the remote control to turn on / off LOUD mode.

To adjust the sound equalizer curves

1. Press **SEL** on the remote control (or push the VOLUME +/- knob on the front) once or more to select a sound equalizer curve: VOL, BAS (without preset EQ), TRE (without preset EQ), BAL, or BEEP (ON/OFF).
2. Rotate the **VOLUME +/-** knob on the front panel (or press +/- button on the remote control) to adjust level.

Select ZONE 1 / 2

Pressing **ZONE 1** or **ZONE 2** will turn on or off the audio source in each of the different areas which your speakers are connected.
"ZONE <1>" or "ZONE <2>" will display on the LCD once it is selected.

Return to the previous menu


Press the  or **TITLE** TITLE PBC on the remote control.

Reset the unit


In case of incorrect display, button failure, or distorted sound, you can press **RESET** with a sharp object such as a clip to reset the unit and load its factory default settings.

Radio Operation

Select a radio region









In RADIO mode, press and hold  for about 5 seconds to select your desired radio region: EUROPE, USA1, USA2, or AUSTRALIA.

Select AM/FM band

In RADIO mode, press and hold  button on the front panel or briefly press **AM/FM** on the remote control to select your desired radio band of FM1, FM2, FM3, AM1, AM2, and the selected band will be displayed on the LCD of the front panel.


Tune to / search for radio stations


In RADIO mode:

- Press and hold  /  on the front panel (or press and hold  /  on the remote control) to automatically search down/up for a available station from the current frequency.
- Press  /  on the front panel (or press  /  on the remote control) to manually search up or down for your desired station from the current frequency.

Use the / APS button

In RADIO mode:

1. Press and hold  on the front panel (or **APS** on the remote control) to search for radio frequencies with sufficient signal strength (starting from the lowest frequency and ending until the search cycle is finished).
Then the 6 strongest stations are preset to the memory bank of the corresponding preset number. The AS operation is implemented in each bank of the selected band. When the AS operation is finished, radio broadcast will resume on M1. (A total of 3x6 stations for FM and 2x6 stations for AM can be stored.)

- Press  on the front panel (or **APS** on the remote control) to search for each preset radio station starting from M1. When the field strength level is above the threshold of the stop level, the radio holds at that preset number for a few seconds, and then searches again. The search stops on M1 when the search cycle is finished.

NOTE:

In FM band, FM1, FM2, FM3 is checked once at a time.


In AM band, AM1, AM2 is checked once at a time.

Use the preset number button (1-6)

In RADIO mode:

- To memorize the current frequency on the current band, press and hold any one of the six preset buttons (1-6).
- To recall the preset memory on the current band, press one of the preset buttons (1-6).

Switch between STEREO/MONO


Press **ST**  on the remote control once or more to switch between STEREO and MONO in FM mode.

Use the LOC ON / OFF function

- In radio mode, when the signals of the distant radio stations are very weak and the reception is poor during tuning, press **LOC** on the remote control to turn off the LOC function, and then tune again for the distant radio stations.
- In radio mode, too strong signals from the local radio stations may lead to interference. You can press **LOC** on the remote control to turn on the LOC function, and then re-tune to the local stations if required.

Basic Disc / USB Operation

Start playback

- Press  to turn on the unit.
- Turn on the TV set, from which the video output is connected to the video input of the unit.



If nothing displays on the TV screen when the unit is turned on, ensure that the TV is set to the right video input (not TV channel). For example, if the TV is connected with the unit via the VIDEO 1 INPUT, then you need to set the TV to VIDEO 1.

- Insert a disc into the disc slot (with the label side facing up).





NOTE:

- Discs that are seriously scratched or of poor manufacturing or recording quality may not play.
- If the unit cannot read a disc in normal conditions, please try to eject and reload the disc.
- In addition to normal CD and DVD, this unit supports CD-R, CD-R/W, DVD-R and DVD-R/W playback as well. However, depending on the conditions of the recording equipment, recording program or the disc itself, some CD-R, CD-R/W, DVD-R or DVD-R/W may not play.
- When dealing with CD-R, CD-R/W, DVD-R or DVD-R/W recording, too high recording speed may result in poor signal quality and therefore, it is recommended to select as low recording speed as possible.





Pause Playback





When playing DVD/VCD/CD/MP4/MP3 discs, press  on the front panel or remote control to pause the playback, press  again to resume normal playback.

Stop Playback

- When playing DVD/VCD/MP3/CD discs, press  once to pause playback, then you can press  to resume normal playback.
- During playback, press  twice to stop playback, then you can press  to start playback from the beginning of the first chapter / track.

Select a chapter/track

Press  /  on the front panel (or  /  on the remote control) during playback to select the previous / next chapter or track to playback.

Note: You can press and hold  /  on the front panel (or  /  on the remote control) to fast backward / forward within a chapter / track.





Select a chapter / track with the number buttons

- When playing DVD/VCD (PBC OFF)/MP3/CD discs, use number buttons (**0 - 9**) to directly select and play a chapter / track numbered 1 to 9.
- To play a chapter / track with the serial number larger than 9, use the **10+** and **0 - 9** buttons. For example, to play the 13th chapter / track, first press the **10+** button once, then press the **3** button; to play the 34th chapter / track, first press the **10+** button 3 times, then press the **4** button.

Note: You can press and hold the **+10** or **-10** buttons to skip 10 tracks forward / backward (for MP3 only).

Select a chapter / track from the root/PBC menu (if available)



For DVD:

1. Press **TITLE**  on the remote control to display the title list.
2. Press the navigation buttons to select your desired title, and then press **OK** or  to open the root menu of the selected title.
3. Press the navigation buttons to select your desired chapter, then press **OK** or  to play the selected chapter.
- During playback, you can press **TITLE** on front panel (or press and hold **TITLE**  on the remote control) to display the root menu of the current title directly, and then perform the same operation to resume normal playback.

For VCD:

1. When PBC is enabled, the disc will play with the PBC menu (if available) displayed on the TV screen.
2. Press the number buttons to select your desired track to play.




For MP3:

1. During playback, the root menu is displayed on the TV screen all the time (**TITLE/PBC**  unavailable).
2. Press the navigation buttons to select your desired folder, and then press **OK** or  to open the folder.
Press the navigation buttons to select your desired file, and then press **OK** to play the selected file.

For CD:

The **TITLE/PBC**  button is disabled.

Terminate playback

1. Press  to eject disc.
2. Press and hold  on the front panel (or press  on the remote control) to turn off the unit.

Advanced Disc / USB Operation

Fast backward / forward

During normal playback, press and hold **⏮** / **⏭** on the front panel (or **⏮** / **⏭** on the remote control) once or more to fast backward or forward at the following speed: x2, x4, x8, x20, or normal.

During fast backward / forward, press **⏮** / **⏭** button to resume normal playback.

Slow forward

- During playback, press **SLOW_FWD** button on the remote control to slow forward.
- Press **SLOW_FWD** consecutively to decrease the playback speed as follows: x1/2, x1/3, x1/4, x1/5, x1/6, x1/7, normal.
- During slow forward, press **⏮** / **⏭** to resume normal playback.

Note: The function is only available for video playback.

Play frame by frame

1. During DVD/VCD playback, press **STEP** on the remote control consecutively to play frame by frame forward.
2. Press **⏮** / **⏭** to resume normal playback.

Play repeatedly

Repeat One / All

1. During DVD playback:
Press **RPT** to select REP CHAPTER, REP TITLE, REP ALL, or REP OFF.
2. During VCD (PBC OFF)/CD playback:
Press **RPT** to select REP ONE, REP ALL, or OFF.
The **RPT** button is unavailable when PBC is enabled during VCD playback.

3. During MP3 playback:
Press **RPT** to select REP ONE, REP DIR, REP ALL, or OFF.

Repeat A-B

Use this function if you want to repeat a specific segment on a disc that you define:

1. Press **A-B** at a point (A) where you want it to be the start point of the repeat segment.
2. Press **A-B** again at a point (B) where you want it to be the terminal point of the repeat segment.
Then the segment will be played repeatedly.
- To cancel **A-B** repeat mode and resume normal playback, press **A-B** for the third time.

Note:

During DVD/VCD/MP3/CD playback, points A and B must be within the same track.

Play from a specified chapter / track or specified time

During DVD playback:

1. Press **SEARCH** on the remote control to display a search box, with the title field highlighted.
2. Use the number buttons to input the serial number of a title.
3. Use the navigation buttons to highlight the chapter field, and then use the number buttons to input the serial number of a chapter.
4. Press **OK** or **⏮** / **⏭** to play the selected chapter.

During VCD/MP3/CD playback:

1. Press **SEARCH** on the remote control to display a search box, with the track field highlighted.
2. Use the number buttons to input the serial number of a track, and then press **OK** or **⏮** / **⏭** to play the selected track.

Operation

Play randomly

During DVD/VCD (PBC OFF)/MP3/CD playback, press **RDM** once or more to switch between RANDOM ON and RANDOM OFF. In RANDOM ON mode, the chapters / tracks will be played randomly.

Play from different angles

During DVD playback, press **ANGLE** ST **ANGLE** on the remote control once or more to view from different angles.

Note:

- This function is only available for discs recorded with different camera angles.
- The ANGLE button is unavailable for VCD/MP3/CD discs.

Zoom in / out during playback

1. During DVD/VCD playback, press **ZOOM** on the remote control once or more to enlarge a certain area of the images on the screen with these multiples: ZOOMx2, ZOOMx3, ZOOMx4, ZOOMx½, ZOOMx¼, ZOOM OFF.
2. Press one of the navigation buttons to select the area you want to enlarge.

Change the caption language

When playing DVDs, press **SUBT** ^{SUBT} **SUBT** ^{REDIAL} on the remote control once or more to select the caption language or turn off the caption (if available).

Note: This function is unavailable for VCD/MP3/CD discs.

Change the audio language

- When playing DVDs, press **AUDIO** on the remote control once or more to select the desired language type (if available).
- When playing VCD discs, press **AUDIO** on the remote control once or more to select MONO L, MONO R, or Stereo (no language function).
- For CD/MP3, the **AUDIO** is invalid.

Check the playback status

When playing DVD/VCD/CD discs, press **OSD** on the remote control once or more to turn on or off playback status display.

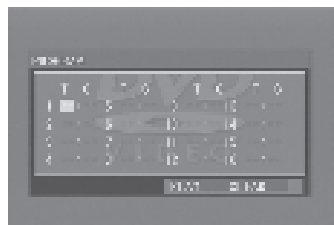
- For DVD discs, this function allows you to check such information as the current title and chapter numbers, and the elapsed and remaining time of both the current title and chapter etc.
- For VCD/CD discs, this function allows you to check such information as the current track number, and the elapsed and remaining time of both the current track and the whole disc.

Program playback

This function allows you to play some titles / chapters / tracks on a DVD/VCD/MP3/CD disc in your specified order.

1. During playback, press **PROG** on the remote control to enter a program interface as follows:

For DVD/MP3



For VCD/CD



2. Use the navigation buttons to move the cursor onto the desired place for inputting the sequence number.

3. Use the number buttons to input the title / chapter / track sequence numbers you want in your desired order.
4. Press **⏮** directly, or use the navigation buttons to move the cursor onto **PLAY**, and then press **OK** on the remote control to play the programmed titles / chapters / tracks in the programmed order.
 - To exit program playback, press **□** followed by **⏮**, or press **PROG** twice again.
 - To remove all programmed sequence numbers, move the cursor onto **CLEAR**, and then press **OK** on the remote control.
 - To change the programmed sequence, move the cursor onto the item you want to change, and then input the desired sequence number.
 - During VCD playback with PBC enabled, PBC will be disabled when you enter program playback.

Play a JPEG picture CD

In disc mode, the root menu is displayed on the screen with MP3 files being played at the same time. (**TITLE / PBC** TITLE PBC button unavailable)

In the root menu, the left file sort icon is for MP3 files, the middle one is for video files, and the right one is for JPEG files. If one of these 3 sorts of files does not exist, you cannot move the cursor onto the corresponding file sort icon.

1. Press the navigation buttons to select your desired folder, file or file sort icon from the root menu.
2. Press **OK** or **⏮** to open the selected folder, or play the selected file, or play the selected sort of files only.
 - In the root menu, you can also use the number buttons to select a file for playback.
 - After selecting the JPEG file sort icon and entering the folder, you can use the

navigation buttons to select your desired JPEG file, and then press **OK** or **⏮** to start full-screen playback starting from the selected JPEG picture.

- During JPEG playback, use the navigation buttons to change the angle of the displayed picture as follows:
 - ▶: 90 degrees clockwise
 - ◀: 90 degrees counterclockwise
 - ▲: Up <--> Down
 - ▼: Left <--> Right
- During JPEG playback, press **PROG** on the remote control to change the picture refresh mode.
- During JPEG playback, press **□** to stop playback and return to the root menu.
- During JPEG playback, the following buttons are unavailable: **SLOW-FWD**, **SUBT**, **TITLE/PBC**, **ANGLE**, **STEP**, **AUDIO**, **RDM** and **A-B**.
- In JPEG mode, the other operations are the same as those in MP3 mode.

Play MP4

In disc mode, the root menu is displayed on the screen and the first file will be played automatically.

During playback, you can press **□** to stop playback and return to the root menu.

1. Press the navigation buttons to select your desired folder or file from the root menu.
2. Press **OK** or **⏮** to open the folder, or play the selected file.
 - In the root menu, you can also use the number buttons to select a file for playback.
 - The **ANGLE**, **PROG**, **RDM**, and **TITLE/PBC** buttons are invalid.
 - The other functions are the same as those in DVD operation, while the repeat function is the same as that in MP3 operation.

ESP and ID3 functions

- The unit supports the ESP (Electrical Shock Protection) function to ensure smooth disc playback on the move.
- During MP3 playback, the current file and folder names as well as the ID3 information (if available in V1.0/2.0 format) will scroll on the LCD screen. The ID3 information includes the song title, and the artist and album name.

USB operation

Power on the unit, then connect a USB storage device to the **USB** socket.

The screen will display the root menu of the USB storage device.

This unit supports picture (JPEG format), audio (MP3 format) and video (MP4 format) playback. All the operations are the same as those of the corresponding format.

NOTE:

1. Compatibility with all file formats is not guaranteed.
2. The USB input with charging function (5V, 1A). (Not all USB products can be charged from the unit.).

Set up the DVD System Menu

1. Press **SETUP** on the remote control to access the DVD System Menu on the TV screen.
There are 6 setup pages in total.
2. Press ◀ / ▶ to select a desired setup page.
3. Press ▲ / ▼ to select a setup item on the selected setup page.
4. Press ▶ to enter the setup item.
5. Press ▲ / ▼ to select an option for the setup item, and then press **OK** to confirm.
- Press ◀ to return to the upper level.

- Press **SETUP** on the remote control again or use the navigation buttons to highlight **EXIT SETUP** and then press **OK** to exit the System Menu.

The 6 setup pages of the DVD System Menu are as follows:

System Setup



1. TV SYSTEM

The unit supports output of various TV systems.

If your TV only supports NTSC or PAL system, the screen will blink and become colorless when the wrong TV system is selected. In this case go to **TV SYSTEM** and select NTSC, PAL or AUTO to match the system of your TV.

2. RESOLUTION

Select the resolution level.

3. TV TYPE

Select an option below to match your TV screen size.

4:3 PS: Choose the item when connecting a TV set with 4:3 screen. When playing pictures of 16:9 size, the left and right parts of the video will be cut out, and displayed on full screen.

4:3 LB: Choose the item when connecting a TV set with 4:3 screen. When playing pictures of 16:9 size, the top and bottom parts of the TV screen will be turned into a black square respectively.

16:9: Choose the item when connecting a TV set with 16:9 wide screen.

4. PASSWORD

Lock or unlock the rating level of Parental Control.

The default state is locked, and the default password is 0000.

You can set a new password that you like: Select **PASSWORD** and then press ► to enter the setup item.

Input the original password 0000, and then press **OK** to unlock it.

Press ► to enter the setup item again, then input a new password that you like and finally press **OK** to confirm.

5. RATING

Set a new rating level for Parental Control.

- Select **PASSWORD** and then press ► to enter the setup item.

Input the set password, and then press **OK** to unlock the rating level setting for Parental Control.

- Select **RATING** and then press ► to enter the setup item.

Use the navigation buttons to select your desired rating level, and then press **OK** to confirm.

- Select **PASSWORD** again and then press ► to enter the setup item.

Input the password and then press **OK** to lock the new rating level setting for Parental Control.

6. DEFAULT

Reset all settings to their original status.

Language Setup



1. OSD LANGUAGE

Select the language of the system menu and all interfaces displayed during playback.

2. AUDIO LANG

Select the audio language.

3. SUBTITLE LANG

Select the subtitle language.

4. MENU LANG

Select the disc menu language.

Audio Setup



AUDIO OUT:

Select a digital output method: **SPDIF/OFF**, **SPDIF /RAW**, or **SPDIF/PCM**.

HDMI AUDIO:

AUTO: Selected to output the audio automatically by RAW or PCM type.

PCM: Selected to output the audio by PCM type.

Video Setup



1. BRIGHTNESS

Adjust the brightness of video output.

2. CONTRAST

Adjust the contrast of video output.

3. HUE

Adjust the hue of video output.

Operation

4. SATURATION

Adjust the saturation of video output.

5. SHARPNESS

Adjust the sharpness of video output.

Speaker Setup



DOWNMIX

Select your desired sound effect when there is no center speaker or subwoofer.

LT/RT: When playing a disc with PRO LOGIC Dolby stereo effect, choose the item to output audio signal with vivid theatre effect.

STEREO: If you choose this item, for audio signal with 5.1 channels, only signal of the left and right channels will be output; for audio signal with 2 channels, the common stereo signal will be output.

VSS: If you choose this item, for a disc recorded with 5.1 channels, the main channel speakers can output audio signal with VSS effect.

Digital setup



1. DYNAMIC RANGE

After selecting the compression mode of **LINE OUT**, you can set this item to adjust the linear compression ratio.

FULL: Set the Peak-to-Peak value of the audio signal to minimum.

OFF: Set the Peak-to-Peak value to maximum.

2. DUAL MONO

Select a desired audio output mode for the left and right channels of signal.

It is mainly for Karaoke of Ac3.

There are 4 modes in all:

STEREO, MONO L, MONO R, MIX MONO

About Parental Control

Q: After insertion of a DVD into the disc slot, a dialogue box appears, asking for a password of 4 digits. Why?

A: This is because the movie you are playing was rated with Parental Control, and the current rating level of the unit is lower than the one of the current disc. You must input the right password and enter it into the Parental Control setup menu and then set an equal or higher rating level than the one of the current disc.

Note:

- If you have not changed the password, the factory preset password for the unit will be empty. You will need to input a desired password and verify it by inputting the password again before entering the Parental Control setup menu.
- For the rating level setup of Parental Control of the unit, please refer to the relative content of the SYSTEM SETUP menu for details.

Accessories: Parental Control

The Parental Control function of a DVD player can be used to control playback of movie scenes on a DVD disc set with a rating level. You can set the DVD player (including the software player on a PC) with a certain rating

Operation

level via the SETUP MENU on the TV screen. If the rating level set in the disc is higher than the one set in the DVD player, the DVD player cannot play the disc. Sometimes the Parental Control sequences in some discs are different from each other. The rating level setup can be protected with a password. If you select **Unlock**, the Parental Control function will be invalid, and the whole content of the disc can be played.

A DVD disc can be designed with different rating levels of Parental Control so that the DVD player can play different versions of scenes from the same movie based on the set rating levels. Depending on the DVD feature of seamless switching, the scenes unsuitable for children will be cleared or replaced by other suitable scenes automatically.

All rating levels of Parental Control are as follows:

Unlock

1. Kid Safe
2. G
3. PG
4. PG 13
5. R
6. NC 17
7. Adult

Region Code

Q: No DVD playback. REGION ERROR is displayed after insertion of a disc into the disc slot. Why?

A: Because the DVD player and disc have different region codes. If they do not match, the DVD player cannot play the disc.

Appendix: Region code of DVD

The Motion Picture Association of America (MPAA) divided the world into 6 regions, and allocated every region a code, named the region code. The region codes and the countries or areas represented by the region codes are as follows:

- Region 1: America, Canada, East-Pacific Islands;
- Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
- Region 3: South-east Asian countries including Taiwan, Hong Kong, South Korea, Thailand, Indonesia, etc.;
- Region 4: Australia, New Zealand, Central South America, South Pacific Islands;
- Region 5: Russia, Mongolia, Indian Peninsula, Middle Asia, East Europe, North Korea, North Africa, North-west Asia etc.;
- Region 6: China mainland.

Bluetooth Operation

Pair DV3100S with your mobile phone

1. Activate Bluetooth mode on your mobile device. Then press **X** on the front panel of DV3100S to enter pairing mode.
2. When DV3100S is detected by your mobile phone, the device name **FURRIION DV3100S-XXXX** (where **X** can be any character from A-Z or number from 0-9) is shown on your mobile phone.
3. Select the device name on your mobile phone, then an input box will pop up, asking you to input a password.
4. Input 0000 and confirm. Upon successful pairing and connection, 'LINK OK' will appear on the LCD of DV3100S.

Note:

1. Some mobile phones support automatic re-connection after first-time pairing with DV3100S. Some other mobile phones may need you to select the device name (**FURRIION DV3100S-XXXX**) from the list of paired Bluetooth devices to confirm re-connection.

- In case of casual disconnection, select the device name (**FURRION DV3100S-XXXX**) from the list of paired Bluetooth devices to confirm re-connection.

Disconnect / unpair DV3100S from your mobile phone

- To disconnect:
On your mobile phone, select the connected device name (**FURRION DV3100S-XXXX**) from the list of paired Bluetooth devices and confirm disconnection.
- To unpair:
Press and hold **✖** on the front panel of DV3100S for about 5 seconds to clear the pairing information.

Operate your mobile phone via Bluetooth

When the Bluetooth connection is ready, the call you make or receive will be transferred from your mobile phone to DV3100S.

- When connected: Use controls on your mobile phone to switch sound output between DV3100S and the mobile phone.
- To dial a number with the remote control of DV3100S:
 - Use number buttons **0-9** to enter a telephone number.
 - * You can press **CLEAR** **⏮** to cancel a wrong input if necessary.
 - Press **📞** to call out.
- To redial a number:
Press **📞** to show the last dialed number on the LCD and call out.
- To accept a call:
When there is an incoming call, press **📞** to accept the call.
- To reject a call:
When there is an incoming call, press **⏮** to reject the call.

- To end a call:
During a call, press **⏮** to end the call.
Note: When there is an incoming call, the calling number will be displayed on the screen of DV3100S.

Play an audio file from another Bluetooth device to DV3100S

"LINK OK" is displayed when DV3100S is paired and connected with another Bluetooth device.

If the Bluetooth device supports A2DP, you can stream music from the Bluetooth device to DV3100S for playback.

To play audio through Bluetooth, you must activate Bluetooth mode on your mobile device.

If the Bluetooth device supports AVRCP, you can use the basic audio playback control functions (such as play/pause) from DV3100S.

Note: In other modes (except during a call via Bluetooth), press **✖** on the front panel to switch between different modes.

Maintenance and Cleaning of Discs

Disc Maintenance

1. To keep the disc clean, handle the disc by its edge, and do not touch the disc surface of the play side.
2. Do not stick paper or tape on the disc. If there is glue on the disc surface, wipe it off before using.
3. Do not expose the disc to direct sunlight, or nearby heat sources such as caliduct, or leave it in a car parked in direct sunlight where there can be a considerable rise in temperature.
4. Put the disc inside a disc case after finishing playback.

Disc Cleaning

1. Before playing, wipe the disc with a clean cloth, and wipe the disc outwards from the disc center.
2. Do not use petrol, thinners, commercially available cleaners or anti-static sprays for plastic LPs to wipe discs.



correct



wrong



correct



wrong

Troubleshooting

Please read the user manual carefully before using the unit. If you have any problems with this product, please refer to the below troubleshooting guide to help you resolve the issue.

TROUBLE/SYMPTOM	SOLUTION
No picture, sound and indication	Ensure that the power switch is on.
	Ensure that the wall inlet is OK.
	Ensure that the power cord is not damaged or the fuse is not blown.
	Ensure that the power connection is OK.
No sound but picture OK	Ensure that the audio output of the unit is in good connection with the TV's audio input.
	Check whether the audio connector is damaged.
	Check whether you have turned down the volume.
	Check whether headphone have been insert to the unit.
	Ensure that the AUDIO setup of the unit is correct.
	Ensure that the audio is not muted.
Black and white picture or screen rolling	Ensure that the TV SYSTEM (e.g. PAL, NTSC) setup is correct.
No picture but sound OK	Ensure that the video output of the unit is in good connection with the TV's video input.
	Ensure that you have turned your TV to the AV input channel connecting to the unit.
	Check whether the video connector is damaged.
	Ensure that the VIDEO setup of the unit is correct.
Flaws in picture or sound	Check whether AUDIO setup is correct.
	Check whether the disc is scratched or stained.
	Check whether the AV connector and output terminal are stained.
	Check whether there is condensation inside the lens. If so, leave the unit off for an hour or so, and then try again.
	Check whether the installation angle is less than 30°.
No disc or bad disc	Ensure that you have inserted the disc into the disc slot.
	Check whether the disc has been put in the reverse side.
	Check whether the disc is distorted.
	Check whether the disc is stained or scratched badly.
	Ensure that the disc format is compatible with the unit.
	Ensure that the temperature inside the car is not too high. If so, let the unit cool off until the ambient temperature returns to normal.
	Insert another disc into the disc slot.

Troubleshooting

TROUBLE/SYMPTOM	SOLUTION
Remote control does not work	Check the batteries of remote control and make sure that they are not flat.
	Direct the remote control to the IR sensor of the unit.
	Check whether there are obstacles between the remote control and IR sensor.
Some function buttons do not work	Turn off the power, then turn on again.
	Reset the unit, then turn on again.
	Remove the front panel from the unit, then put it back and turn on again.
The radio does not work	Check whether the antenna cable is connected firmly, or manually tune for a station.
Functions locked or no response for Bluetooth function	Press RESET with a sharp object such as a clip to reset the unit and load its factory default settings.

Specifications

General Specification

Power supply requirement	DC 12V
Total Power	4x 15W RMS
USB Output Voltage / Current	5V @ 1 A
Dimensions	7 $\frac{1}{8}$ " x 4 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ " (200 x 110.5 x 190 mm)

DVD Deck Specification

Format	DVD/VCD/JPEG/MP4/MP3/CD
Video system	NTSC/PAL/AUTO (optional)
Audio system	24 bit/96KHz
Loading system	Auto Loading
Mounting angle	0 to +/-30

Video Specification

Video type	16:9 and 4:3
Video output level	Composite:1.0 \pm 0.2Vp-p Load impedance: 75 ohms
Horizontal resolution	600

Audio specification

Audio output (Analog audio)	2.0 Vrms
Frequency response	20Hz ~ 20KHz (at 1 KHz 0 dB)
S/N ratio (Audio)	\geq 75 dB (20- 20K)
Separation	50dB
Speaker output	4 Ω Min Load (connect 4 - 8 Ω speakers)

Radio specification

FM section	
Frequency range	88MHz - 108MHz (US) 87.5MHz - 108.0MHz (EU) 87.5MHz - 108.0MHz (AUS)
Usable sensitivity	3uV
I.F frequency	10.7MHz
AM section	
Frequency range	530KHz -1710KHz (US) 522KHz -1620KHz (EU) 522KHz -1710KHz (AUS)



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