FlexVision®

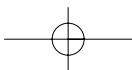# *IN-CAR DVD-VIDEO PLAYER*

User's Manual

DVDVCP01

FlexVision
FULL AUTOMATIC CAR VIDEO SYSTEM
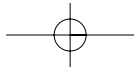
*SPECIALLY DESIGNED FOR VAN, RV, MARINE,
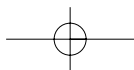AND OTHER MOBILE APPLICATIONS*

ASA

AUDIOVOX SPECIALIZED APPLICATIONS, L.L.C.

This instrument is listed by Underwriter's Laboratories, Inc. It is designed and manufactured to meet rigid U.L. safety standards against X-radiation, fire, casualty and electrical hazards.

Audiovox Specialized Applications, LLC., Elkhart, IN 46514

www.asaelectronics.com

IMPORTANT SAFEGUARDS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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 servicing instructions in the literature accompanying the appliance.

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

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

IMPORTANT FOR LASER PRODUCTS

LASER   This Digital Video Disc Player employs a Laser System. To ensure proper use of this product please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location - see service procedure.

Use of control adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated. DO NOT STARE INTO THE BEAM.

DANGER   Visible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

CAUTION   Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

**CLASS 1
LASER PRODUCT**

FCC NOTICE   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 Rule. 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 instructions, 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:

• Reorientate or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experience radio/TV technical for help.

CAUTION : Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

1 Read Instructions

All the safety and operating instructions should be read before the unit is operated.

2 Retain Instructions

The safety and operating instructions should be retained for future reference.

3 Heed Warnings

All warnings on the unit and in the operating instructions should be adhered to.

4 FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5 Cleaning

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6 Attachments

Do not use attachments unless recommended by the unit's manufacturer as they may cause hazards.

7 Water and Moisture

Do not use this unit near water- for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like. Caution : Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

8 Accessories

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or adult as well as serious damage to the unit. Use this unit only with a cart, stand , tripod, bracket, or table recommended by the manufacturer.

8A

A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.

PORTABLE CART WARNING
(symbol provided by RETAC)

9 Ventilation

Slots and openings in the case are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered. These openings must not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat radiator. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
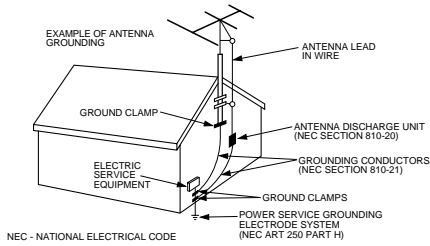
10 Power Sources

This unit should be operated only from the type of power source indicated on the marking label.

11 Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

12 Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See example as shown.

2

EXAMPLE OF ANTENNA
GROUNDING

ANTENNA LEAD
IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT
(NEC SECTION 810-20)

ELECTRIC
SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250 PART H)

NEC - NATIONAL ELECTRICAL CODE

13 Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

14 Lightning

For added protection for this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

15 DISC TRAY

Keep your fingers well clear of the disc as it is closing. It may cause serious personal injury.

16 Object and Liquid Entry

Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

17 BURDEN

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

18 DISC

Do not use a cracked, deformed or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

19 Servicing

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20 Damage Requiring Service

Refer servicing to qualified service personnel under the following conditions:

A. If liquid has been spilled, or objects have fallen into the unit.

B. If the unit has been exposed to rain or water.

C. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.

D. If the unit has been dropped or the cabinet has been damaged.

E. When the unit exhibits a distinct change in performance-this indicates a need for service.

21 Replacement Parts

When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the unit manufacturer can prevent fire, electric shock, or other hazards.

22 Safety Check

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks recommended by the manufacturer to determine that the unit is in safe operating condition.

23 Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24 Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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READ CAREFULLY BEFORE USING

Cautions in use of DVD-Video player are described below.

Please read carefully before using a DVD-Video player.

INSTALLATION PLACE AND HANDLING

- When you place this player near other devices, they may affect poorly together.
- When you place DVD-Video player and TV in the upper and lower sides, it may cause flickering of pictures or failure (tape is not ejected).
- Do not spill volatile liquids like insect spray over the player. Do not leave rubber or plastic products in contact with the player for a long time. They will cause deterioration or paint peel-off.

NOT IN USE

- When the unit is not in use, be sure to remove the disc or tape and turn off the power.
- If you do not use the unit for a long period, remove batteries in remote control to prevent leakage.
- In case you don't use the unit for a long time, the unit may not function properly in the future. Turn on and use the player occasionally.

MOVING

- Repack the unit as it was originally packed at the factory. Alternatively, pack this product with towel not to be damaged.
- Eject any videotape.

CLEANING

- Dust off dirt in cabinet or control panel part smoothly with a soft cloth.
- For heavy dirt, soak the cloth in a weak detergent solution, wring it well and wipe. Use a dry cloth to wipe it out.
- Follow instructions in using chemical cleaners.
- Do not use any type of solvent such as gasoline or benzene, as they may cause deterioration or paint peel-off.

CHECKING

- This is a high precision device. To obtain a clear screen, we recommend regular inspection and maintenance every 1,000 hours of use by technical engineers.
- For checking, contact your dealer or your nearest service center.

TAPE AND DISC HANDLING

- Do not use any tape or disc with damage as described below. Damage of video head or cut/coiling of tape may cause failure.
  - Tape with mold
  - Tape or disc stained with juice or attachments
  - Tape having breakage connection
  - Disassembled tape
  - Disc with severe scratch
  - Tape or disc with loose or poorly fitting labels
- Moisture condensation may occur in tape. Moisture condensation damages the tape. Please use the tape after the moisture condensation is disappeared.
- After use, store tape vertically in a case to prevent loose.
- Do not store the unit where the following conditions may exist:
  - High temperature and humidity
  - Subject generation of mold
  - Subject to direct sunlight
  - Much dirt or dust
  - Near strong magnetic materials such as speaker

INSTRUCTIONS FOR USING THE REMOTE CONTROL

- Operate remote control within 7m from the unit.
- Do not press 2(two) buttons at the same time.
- Protect from dirt and excess humidity.

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PRODUCT FEATURES

- **DVD, VCD, CD, CD-R(MP3), CD-RW, VHS playback function**
- **Integrated remote control (VCP, DVD)**
- **High Sound Quality of 4 head Hi-Fi**
- **MP3 file playback function (CD-R disc having records of MP3 files)**
- **GUI (Graphical User Interface) OSD (On Screen Display)**

  By using the [DISPLAY] button on the remote control, information on the DVD/VCD/CD player and disc, can be displayed on the TV screen.

- **Screensaver function (DVD)**
- **3D sound (3D sound effect using 2 speakers)**
- **High bit / high sampling with 27MHz /10bit video encoder**

  This unit has 27MHz / 10bit capability, that enables the faithful reproduction of fine images.

- **High bit / high sampling with 96KHz /24bit audio D/A converter**

  With this 96KHz / 24bit linear Pulse Code Modulated signals, which constitute the highest specifications in the DVD standards, you can enjoy faithfully reproduced sound in all of its various modes. To support 96KHz sampling / 24bit sound, the shaping noise of this multi-level digital sigma type of D/A converter is kept flat up to 44KHz, thus preventing the important audio signals from being affected.

- **Slow Forward / Reverse (DVD) playback**
- **Fast Forward / Reverse playback**
- **Search of title, chapter, and time in DVD disc, and search of track and time in VCD and CD**
- **Various TV aspect (DVD)**

  4:3 for Pan and Scan, 4:3 for Letter Box, and 16:9 for Wide

- **Repeat playback (title and chapter for DVD, track and disc for VCD/CD)**
- **Repeat a defined period from A to B (DVD)**
- **Selective Play (DVD/VCD/CD)**

  You can select and play the desired title / chapter of DVD and track of Video CD/CD in STOP mode.

- **Various languages OSD (On Screen Display) function (DVD)**

  You can select and display OSD among various languages. (English, French, Spanish)

- **Parental Lock function (DVD)**

  This function can prevent playback of software that may be unsuitable for children.

- **Multi Audio function (DVD)**

  The audio soundtrack can be heard in up to 8 languages. In the case of SVCD or CVD, it depends on the disc. (The number of audio languages depends on the software.)

- **Multi Subtitle function (DVD)**

  The subtitle can be seen in up to 32 languages. In the case of SVCD or CVD, it depends on the disc. (The number of subtitle languages depends on the software.)

- **Multi Angle function (DVD)**

  This function allows you to choose the viewing angle of scenes which were shot from a number of different angles. (The number of angles depends on the software.)
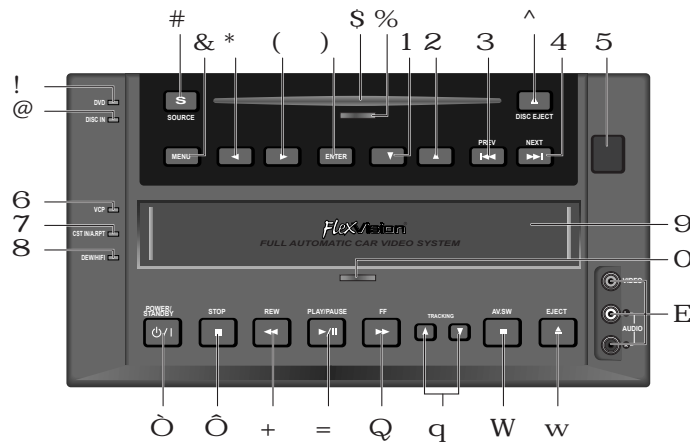
- **Screen zoom function (DVD/VCD)**

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TABLE OF CONTENTS

IDENTIFICATION OF CONTROLS

FRONT PANEL

! DVD indicator
@ DISC IN indicator
# SOURCE
  Use to change DVD mode to VCP and vice versa.
S Place to insert disc
% DVD Insertion indicator
^ DISC EJECT
& MENU
* Cursor LEFT
(Cursor RIGHT
) ENTER
1 Cursor DOWN
2 Cursor UP
3 PREVIOUS
4 NEXT
5 Remote control receiver

6 VCP indicator
7 Cassette IN/Auto REPEAT indicator
8 DEW/Hi-Fi indicator
9 Place to insert video tape
O Tape Insertion indicator
Ò POWER/STANDBY
Ô STOP
+ REW
= PLAY/PAUSE
Q FF
q TRACKING -/+
W AV.SW
w EJECT
E AV JACK

7
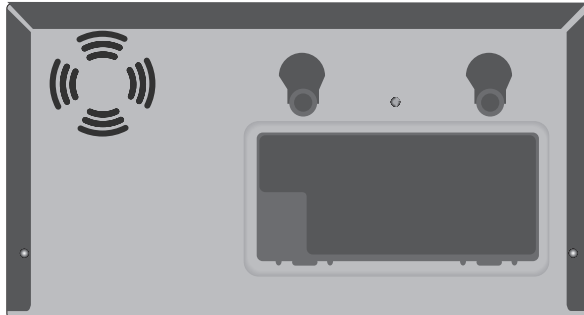
! Infrared (IR) INPUT Connector

This connector provides a two wire interface with various Flexvision video monitor products.

* Connector description

@ Infrared (IR) INPUT Connector (Remote Eye)

This connector provides a three-wire interface with receiver accessory. (Remote Eye). (P/N 136-2070)

AUDIO/VIDEO IN Connector

These connectors provide an interface to the AUDIO/VIDEO OUT connectors of your Game machine or Camcorder using an RCA cord.
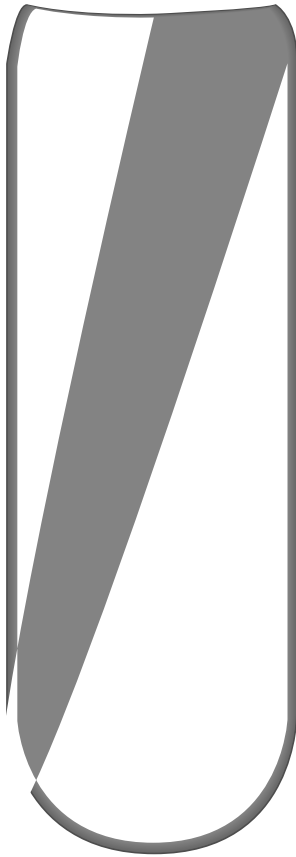
Ƨ DC 12V Jack

When using a DC power source, connect this jack to 12V DC.

* Connector description

℅ AUDIO/VIDEO OUT Connectors

These connectors provide an interface to the AUDIO/VIDEO IN connectors of your video monitor, using an RCA cord.

■ REMOTE CONTROL

! [DVD] MENU button

@ POWER button

[DVD] TITLE /PBC button

$ [DVD] DISC EJECT button, [VCP] EJECT button

% [DVD, VCP] MOVE/SELECT in OSD, [VCP] Channel Up/Down button

^ SETUP button

& [DVD] REPEAT Playback button

* [DVD] REPEAT a defined period from A to B button

([DVD] PREVIOUS button (move into a previous chapter or track)

) REVERSE SEARCH button

1 [DVD] ANGLE button

2 [VCP] TRACKING -/+ button

3 3D button

4 [DVD] ZOOM button

5 [DVD, VCP] NUMBER button

6 VCP SELECT button

7 DVD SELECT button

8 [DVD, VCP] OSD DISPLAY button

9 [DVD] Chapter/Title/Time SEARCH button

O ENTER button

Ò AV/SW button

Ô [DVD] SUBTITLE Select button

+ [DVD] AUDIO LANGUAGE Select, [VCP] AUDIO Select button

= [DVD] NEXT button (Move into a next chapter or track) , [VCP] Frame Advance button in pause mode

Q PLAY/PAUSE button

q FORWARD SEARCH button

W STOP button

w [VCP] Auto Repeat button

E CLEAR button

e MUTE button
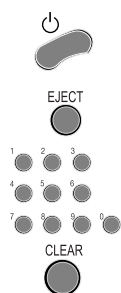
GENERAL FUNCTION OF REMOTE CONTROL UNIT

POWER
Activates the unit POWER ON or STANDBY.

EJECT
To eject a disc or tape, press EJECT button.

NUMERIC
Used from the menu to select, title/chapter search, time search and direct track number.

CLEAR
Used when discarding wrong number input.

BASIC FUNCTION OF REMOTE CONTROL UNIT

PLAY/PAUSE
Use this button to play or pause the disc (or tape). Pressing this button during play, causes the disc (or tape) to pause if in pause mode it functions as the PLAY button.

STOP (RETURN)
To stop the current playing mode, press STOP.
When using VIDEO CD2.0, CVD and SVCD with PBC function included, this button works as a RETURN button. To stop PBC disc, use PBC button.

FF
To play a disc or tape fast forward. While Paused, this button will play slow forward.

FR
To play a disc or tape fast reverse. While Paused, this button will play slow reverse.(DVD only)

NEXT
In DVD, used to move to the next chapter (DVD) or track (VCD or CDDA) from the current chapter or track. Pressing this button shows next play list when playing VCD with PBC.
In VCP, used to watch a series of screens one by one (Frame Advance).

PREVIOUS
Used to move to the previous chapter (DVD) or track (VCD or CDDA) from the current chapter or track. Pressing this button shows previous play list when playing VCD with PBC.

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ADVANCED FUNCTIONS OF REMOTE CONTROL UNIT

REPEAT

REPEAT (Except VCD with PBC on)

Two repeat modes are possible. When using a DVD, 'CHAPTER REPEAT ON' repeats the current chapter and 'TITLE REPEAT ON' repeats all chapters in the current title. When using a VCD with PBC off or CDDA, 'REP-ONE' repeats the current track and 'REP-ALL' repeats all tracks on the disc. To clear the repeat function, press this button until you see 'REPEAT OFF' on the TV screen. Turn off PBC to use this button on VCD with PBC included.

A-B

A-B (Except MP3)

The moment you press this button during play, the starting point for the desired segment is selected. When you press this button again, the ending point is selected and starts repeated play of the selected segment automatically. Press this button again to cancel the repeating of the selected segment.

ZOOM

ZOOM

Enlarges DVD or VCD screen images up to 3 times.

DISPLAY

This button has multiple functions. In DVD mode, it supports search of a chapter/title for DVD or a track for VCD and CDDA. Also shows information for elapsed or remaining time.

In VCP mode, Audio mode, tape counter and the various information of VCP will be displayed.

3D SOUND

Adds 3D surround effect to analogue audio output when downmixed. There are 4 surround modes.

DVD FUNCTION OF REMOTE CONTROL UNIT

TITLE/PBC (VCD with PBC only)

Used to display the title menu of the loaded DVD disc. This function is disc dependent. A DVD disc may not contain the title menu.

Also you may turn on or off the PBC function by pressing this button. When the VCD with PBC is loaded, PBC function is enabled automatically. Video CD2.0, SVCD and CVD are PBC controllable.

MENU

Used to display the contents menu of the loaded DVD disc. This function is disc dependent. A DVD disc may not contain a contents menu.

ANGLE

Used to select a different angle when the loaded DVD disc supports multiple angles. This function is a disc dependent. Many DVD discs don't support multiple angles.

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SUBTITLE

Used to change the subtitle language to a different languages or to turn the subtitles off. This feature is DVD content dependent.

AUDIO

In DVD, used to change the audio language to a different language from the one selected at the initial settings, when the loaded disc supports multiple audio languages.

In VCP, pressing this button makes AUDIO mode change to Hi-Fi, Hi-Fi L, Hi-Fi R and MONO in good order.

SETUP FUNCTION OF REMOTE CONTROL UNIT

DIRECTION (∧∨<>)

Used to move to the desired menu. Also can be used to display function.

SETUP

Sets up
DVD
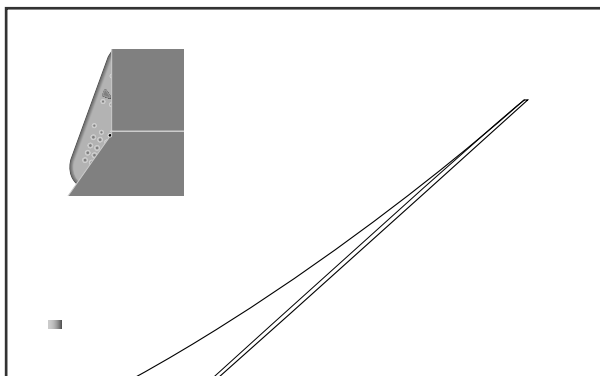
accessories or not supplied parts additionally

INSTALLATION

TO VEHICLE CONNECTION

- Connect the unit to a 12Vdc source only.

- The unit should be connected to the vehicle only after verifying the polarity of the cigarette lighter socket. (12Vdc with negative ground)
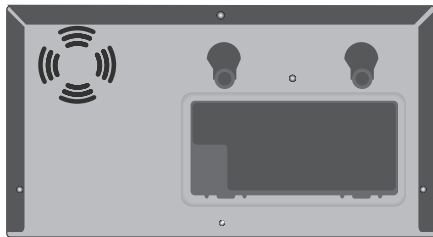
■ CONNECTING WITH OTHER VIDEO EQUIPMENT ■

- You can connect a wide variety of audio/video equipment to your DVD-Video, including : an additional VCR, Laser Disc Player, DVD Player, Camcorder, Satellite Receiver, Video Game. Since all of these devices use essentially the same connections, they will be described together.
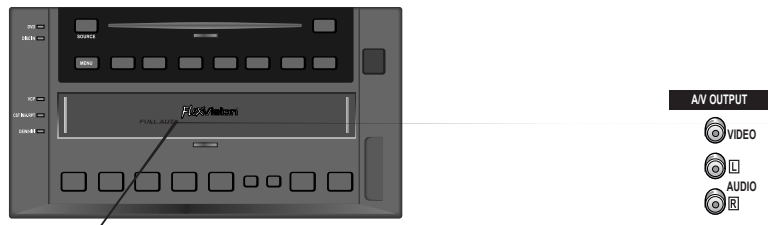
- Connect Audio/Video Out jack in other video equipment to Audio/Video In jack in rear panel (or front panel) of DVD-Video with connecting cable.

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Installation

CONNECTING WITH ANALOG AUDIO

1 Connect Audio jack. Connect AUDIO OUT in rear panel of DVD-Video to IN jack of stereo sound unit.

2 For Input Select in stereo unit, Select "External Input" connected with DVD-Video.

3 Playback DVD disc or Hi-Fi videotape, you can hear sound in speaker of stereo unit.

REAR OF THIS PLAYER

STEREO SOUND UNIT

INSTALLATION

AUDIO INPUT

AUDIO

15
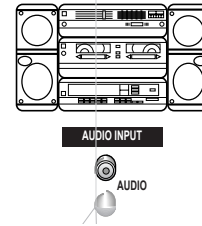
OUTPUT SELECT

OUTPUT SELECT is used to display each output screen on the TV monitor by matching each screen with output source.

WITH [AV.SW] BUTTON

With [AV.SW] button, 4 output (AV1~4) mode can be set to VCP, DVD or AUX.
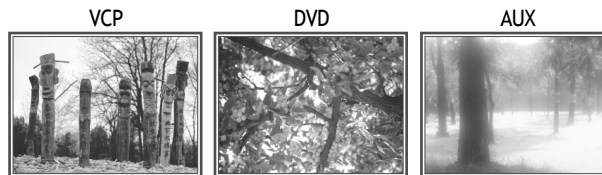
VCP	DVD	AUX


```
        AV SWITCHING

AV1    VCP   DVD   AUX
AV2    VCP   DVD   AUX
AV3    VCP   DVD   AUX
AV4    VCP   DVD   AUX

Move : É  ˅ ˄    Select : ENTER
End : AV.SW
```

1 Press [AV.SW] button, then the right screen will appear.

2 With [∧∨<>] buttons, go to desired source in green color. The source which is previously set will be appeared in yellow color.

3 Press [ENTER] button to select its source. The selected source will blink in yellow and green color.

4 Set each source using the same method. When the settings are done, press the [AV.SW] button.

AV 1	AV 2	AV 3	AV 4

16

MODE CHANGE

MODE CHANGE is used to select between VCP operation and DVD operation.

■ WITH FRONT PANEL BUTTON

By pressing [SOURCE] button on front panel, the buttons on the front panel or on the remote control activates according to the selected mode, DVD or VCP.

■ WITH REMOTE BUTTONS

Press [DVD] button.

If DVD mode is correctly selected, DVD lamp on the front panel is lighted.

Then, front/remote button works as DVD function.

Press [VCP] button.

If VCP mode is correctly selected, VCP lamp on the front panel is lighted.

Then, front/remote button works as VCP function.

■ NOTE

If you donÕt select DVD in AV SWITCHING screen, DVD wonÕt be operated even if you insert the disc or the DVD lamp on the front panel is lighted by pressing DVD button.

Also applicable to VCP.

VIDEO PLAYER OPERATION

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VIDEO PLAYER OPERATION

BASIC PLAYBACK

1 Press [⏻] button to power on.

Press [VCP] button of remote control to change into VCP mode.

2 Insert the desired tape.

3 If you want to playback it, press [PLAY/PAUSE] button.

When the operational status is flickering or poor, adjust it with [TRACKING +/-] button.

4 To stop it, press [■] button.

For pause, press [PLAY/PAUSE] button in playback mode.

If you press this button once more, it starts playback again.

5 Press [EJECT] button to remove the tape.

VARIOUS PLAYBACK METHODS

- **If you want fast forward (or reverse) playback,** press [˄ ˄] or [˅ ˅] button in Playback mode. You can watch fast playing (rewinding) screen.

- **If you want Still picture,** press [PLAY/PAUSE] in Playback mode. You can watch the desired screen in pause status.

- **If you want slow-motion playback,** press [˄ ˄] button in Pause mode. You can watch the desired screen in the slow forward playback.

  * NOTE: VCP doesn't have Slow Reverse Playback function.

- **If you want to watch a series of screens one by one,** (FRAME ADVANCE) press [NEXT ˄ ˄ ❙] button in Pause mode. Each time you press this button, the picture advances one frame.

TO ADJUST DISPLAY

This product includes automatic Tracking functions and enables users to enjoy clear video playback without any additional operations. However, in some cases, the following problems can be corrected by manual adjustment. (During automatic adjustment, "Adjusting Display" is displayed on the TV screen.)

- If the screen is poor in Playback mode,

- If noises occur in the upper or lower part of screen in slow playback mode,

- If paused picture vibrates up and down.

Use [TRACKING +/-] buttons of remote control to adjust the display suitable for watching.

NOTE

If the product, which has an auto-detector, detects that the tape playback heads are contaminated it will display a notice on the video screen.

In the case of the notice on the screen, please clean the heads with a commercially available tape head cleaner, as described in ÒHow to use a head-cleanerÓ section on page 33.

18

AUTO REPEAT PLAYBACK

- Press [PLAY] button for 2 seconds or [A.REPEAT] button in the playback mode. The "A. RPT" lamp on the front panel will illuminate. The VCP cycles through the following modes and the "A. RPT" lamp lights green. The tape will play to the end, rewind to the beginning and play again.

  PLAYBACK ➡ THE END OF THE TAPE ➡ REWINDING ➡ PLAYBACK..

- Other controls have no effect during the Auto Repeat mode.

- To exit the Auto Repeat mode, press [PLAY] button for 2 seconds or [A.REPEAT] button again. The "A. RPT" lamp will turn off and stop the tape.

NOTE

- ¥ *Audio-visual material may include copyrighted works which must not be recorded without authorization of the copyright owner.*
- ¥ *Do not insert fingers or any foreign object beyond the door flaps of the cassette compartment; this could lead to injury or equipment damage.*
- ¥ *Do not attempt to insert a video cassette if the unit is not powered.*

USING VIDEO CASSETTES

Before you play a video cassette tape, be certain to read this information on the proper care and use of video cassettes.

Only use video cassettes that bear the VHS mark: VHS

Inserting video cassettes

Firmly insert the cassette into the cassette compartment with the label up. An inverted cassette cannot be inserted.

Removing video cassettes

Press [EJECT] button and the VCP will eject the tape. Pull the cassette out gently.

VIDEO PLAYER OPERATION

19

PLAYING DISCS

BASIC PLAYBACK

1 Press [⏻] button to power on.

Press [DVD] button of remote control to change into DVD mode.

2 Insert the disc with its label look upward.

After checking the disc's condition, Playback or Stop function starts to operate.

3 To playback it, press [PLAY/PAUSE] button.

- In the case of DVD, DVD menus and titles are displayed on TV screen.

- In the case of S-VCD and VCD2.0, the menus are displayed on TV screen and it is converted into PBC (Playback Back Control) mode.

- In the case of CD, VCD1.1 and MP3, the disc plays in order of its track numbers.

4 To stop it, press [■] button.

It enters into RESUME STOP mode. Pressing [■] button two times makes the screen go to first screen.

5 Press [EJECT] button to remove the disc.

NOTE

RESUME STOP means that the unit memorizes the last point where it stopped and will resume playback from that point.

20

FAST (REVERSE) PLAYBACK

- If you want fast (or reverse) playback, press [ˆ ˆ] or [˘ ˘] button **in Playback mode.** You can watch fast playing (reverse) screen.

  Each time pressing [ˆ ˆ] button, its speed changes like below:

  DVD : FF 2x → FF 4x → FF 8x → FF 16x → FF 32x → FF 64x → PLAY → FF 2x → …

  SVCD, VCD, CD, MP3 : FF 1x → FF 2x → FF 4x → FF 6x → PLAY → FF 1x → …

  Each time pressing [˘ ˘] button, its speed changes like below:

  DVD : FR 2x → FR 4x → FR 8x → FR 16x → FR 32x → FR 64x → PLAY → FR 2x → …

  SVCD, VCD, CD, MP3 : FR 1x → FR 2x → FR 4x → FR 6x → PLAY → FR 1x → …

SLOW (REVERSE) PLAYBACK

- If you want slow (or reverse) playback, press [ˆ ˆ] or [˘ ˘] button **in Pause mode.** You can watch the desired screen in the slow forward (reverse) playback.

  Each time pressing [ˆ ˆ] button, its speed changes like below:

  DVD : SF x$1/2$ → SF x$1/4$ → SF x$1/8$ → PLAY → SF x$1/2$ → …

  SVCD, VCD : SF x$1/2$ → SF x$1/4$ → SF x$1/6$ → PLAY → SF x$1/2$ → …

  Each time pressing [˘ ˘] button, its speed changes like below:

  DVD : SR x$1/2$ → SR x$1/4$ → SR x$1/8$ → PLAY → SR x$1/2$ → …

STILL PICTURE

- If you want still picture, press [PAUSE] button in Playback mode. You can watch the desired screen in Pause status.

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PLAYING A DESIRED SCENE

TO SKIP SCENES IN A DISC — *DVD, VCD, VCD2.0, CD, MP3*

1 To move to next chapter (or track), press [NEXT ˆ ˆ ▌] button.

The current chapter (or track) moves to the next chapter (or track).

2 Press [▌ˇ ˇ PREV] button.

The current scene moves to the previous chapter (or track) or first scene of current chapter (or track).

DIRECTLY MOVING TO A DESIRED TITLE — *DVD*

Some movie discs may contain multiple titles. If the disc has a movie title menu recorded on it, the [TITLE] button can be used to select the movie title. Details of operation may differ depending on the disc used.

* Selecting a title may not be available on certain DVD discs.

1 Press the [TITLE/PBC] or [MENU] button.

A list of the titles on the disc is displayed.

For the case of VCD disc, menu screen will appear only when the disc has PBC function and PBC ON is activated.

PLAY MOVIE
SETUP
SCENE SELECTION
SPECIAL FEATURES

2 Press the [ENTER] button or [PLAY] button after pressing the [∧∨< >] button to select the desired title.

The selected title now starts playing.

MP3 PLAY

1 When an MP3 disc is loaded, MP3 menu screen is displayed automatically depending on MP3 disc's folder (directory) structure as shown left.

2 Use the direction button to select the folder you want to play, by pressing [PLAY] button. This button allows, you to see the file lists under the folder.

3 Use the direction button and select an MP3 title using the PLAY button then play will start automatically. When you know the title number, enter the MP3 title number using the numeric buttons on the remote control and then press [PLAY] button.

4 Press [NEXT] button on the remote control to choose next title. Press [PREV] button for previous title. When you know the title number, enter MP3 title number using the numeric buttons on the remote control and then press [PLAY] button.

DISC MENU		
🗁 ROOT	*MP3* 1234567890	5
🗁 011	*MP3* ABCDEF	6
🗁 021	🗁 GAYO	7
🗁 031	*MP3* GAWU	8
🗁 041	🗁 POP	9
🗁 051	*MP3* SU-#$%()	10
PLAY MODE: FOLDER		

NOTE

When playing a MP3 disc, the unit has functions like mute, pause, previous /next track, repeat and channel selection. You may operate as you do with a CD.

22

- ¥ *CHAPTER REPEAT ON : Current chapter will be repeatedly playback.*
- ¥ *TITLE REPEAT ON : Current title will be repeatedly playback.*
- ¥ *REP-ONE : Current track will be repeatedly playback.*
- ¥ *REP-ALL : Current disc will be repeatedly playback.*
- ¥ *REPEAT OFF : Repeat playback will be cancelled.*

■ REPEATING A DEFINED PERIOD   *DVD, VCD, CD, MP3*

Each time you press [REPEAT] button in playback mode, repeat playback starts as below.

- DVD : CHAPTER REPEAT ON → TITLE REPEAT ON → REPEAT OFF

- VCD, CD, MP3 : REP-ONE → REP-ALL → REPEAT OFF

■ REPEATING A DEFINED PERIOD FROM A TO B   *DVD, VCD, CD*

You may repeat a defined period from A to B.

1 At the point where you want to start the repeat playback, press [A-B] button.

The left figure appears and repeat playback start position (A) is set.

2 At the point where you want to end the repeat playback, press [A-B] button again.

The repeat playback end position (B) is set and a defined period from A to B is playback repeatedly.

3 To exit from repeat playback mode, press [A-B] button.

It enters into Normal Playback mode.

```
A TO B    SET A
```

```
A TO B    SET B
```

```
A TO B    CANCELLED
```
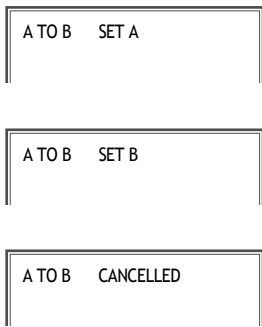
NOTE

A MP3 disc may not be repeated from A to B.

DVD PLAYER OPERATION

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■ SEARCHING DVD WITH A TITLE/CHAPTER NUMBER OR A TIME   `DVD`

TITLE 01/05   CHAPTER 003/014

1 If you want to search with a chapter number, press [SEARCH] button one time.

It shows total title numbers and chapter numbers. Please enter the new chapter number to be searched using the [NUMBER] buttons.

TITLE 01/05   CHAPTER 003/014

2 If you want to search with a title number, press [<] button.

Selection bar locates in current title. Please enter the new title number to be searched using the [NUMBER] buttons.

TITLE 01/05   TIME _ _:_ _:_ _

3 If you want to search with a time, press [SEARCH] button again.

Please enter the new time to be searched using the [NUMBER] buttons.

4 In completing entering, please press [ENTER] button.

PLAY starts from the selected position.

■ SEARCHING VCD AND CD WITH A TIME   `VCD, CD`

SELECT : 03

1 To select track 3 for example, press [number 3] button.

You can only enter a time to search within current track.

GO TO - - : - -

2 If you want to search with a time, press [SEARCH] button.

Please enter the new time to be searched using the [NUMBER] button.

3 In completing entering, please press [ENTER] button.

PLAY starts from the selected position.

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CONFIRMING THE CURRENT PLAY MODE ON SCREEN

CONFIRMING THE CURRENT DVD DISC MODE   *DVD*

[DISPLAY] button can be used to know the elapsed title/chapter and remaining title/chapter.

```
TITLE 01/05   CHAPTER 002/014
TITLE ELAPSED           00:00:52
```

```
TITLE 01/05   CHAPTER 002/014
TITLE REMAIN            01:56:20
```

```
TITLE 01/05   CHAPTER 002/014
CHAPTER ELAPSED         00:01:07
```

```
TITLE 01/05   CHAPTER 002/014
CHAPTER REMAIN          00:03:29
```

```
TITLE 01/05   CHAPTER 002/014
OFF                     00:03:29
```

1   While in playing, press [DISPLAY] button one time.

The screen shows current title/chapter number. Also it shows the elapsed time of the title.

2   Press [DISPLAY] button two times.

The screen shows current title/chapter number. Also it shows the remaining time of the title.

3   Press [DISPLAY] button three times.

The screen shows current title/chapter number. Also it shows the elapsed time of the chapter.

4   Press [DISPLAY] button four times.

The screen shows current title/chapter number. Also it shows the remaining time of the chapter.

5   Press [DISPLAY] button five times.

The screen shows current title/chapter number. And the display mode will be off.

CONFIRMING THE CURRENT VCD, CD DISC MODE   *VCD, CD*

```
TRACK NUMBER : 09/19
SINGLE ELAPSED          00:04:23
```

```
TRACK NUMBER : 09/19
SINGLE REMAIN           00:01:25
```

```
TRACK NUMBER : 09/19
TOTAL ELAPSED           00:44:23
```

```
TRACK NUMBER : 09/19
TOTAL REMAIN            00:50:00
```

```
TRACK NUMBER : 09/19
OFF                     00:44:23
```

1   While in playing, press [DISPLAY] button one time.

The screen shows current track number and the elapsed time of the track.

2   Press [DISPLAY] button two times.

The screen shows current track number and the remaining time of the track.

3   Press [DISPLAY] button three times.

The screen shows current track number and the elapsed time of the disc.

4   Press [DISPLAY] button four times.

The screen shows current track number and the remaining time of the disc.

5   Press [DISPLAY] button five times.

The screen shows current track number. And the display mode will be off.

DVD PLAYER OPERATION

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AUDIO/SUBTITLE LANGUAGE AND 3D

AUDIO 1/5:AC-3 2CH ENGLISH

SUBTITLE 01/03 : ENGLISH

SURROUND

SELECTING AN AUDIO LANGUAGE   *DVD*

The user may select an audio language and subtitle language if a disc includes Multi-language.

Keep pressing [AUDIO] button till the user's preferred language appears.

If DVD disc includes audio information, every time the user presses [AUDIO] button, English (ENG), French (FRE), Spanish (SPA) and others appear one by one.

SELECTING A SUBTITLE LANGUAGE   *DVD*

Keep pressing [SUBTITLE] button till the user's preferred language appears.

If a DVD disc includes subtitle information, every time the user presses [SUBTITLE] button, English (ENG), French (FRE), Spanish (SPA) and others appear one by one.
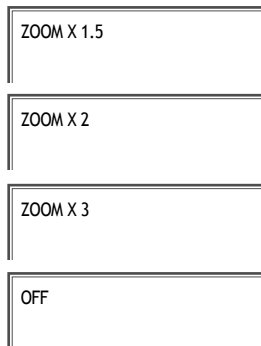
SELECTING 3D AUDIO   *VCD, CD*

This function outputs 3D effects on the stereo audio analog output where 3D effects are broken down into 4 surround modes.

1 Press [3D] button.

Every time the user presses [3D] button, SURROUND, 3D SOUND, HALL and KARAOKE appear one by one.

2 Select the desired 3D sound mode.

26

ZOOM AND MULTI ANGLE

ZOOM X 1.5

ZOOM X 2

ZOOM X 3

OFF

USING A ZOOM FUNCTION *DVD, VCD*

The user can enlarge the current screen about 1.5, 2 or 3 times.

1 **Keep pressing [ZOOM] button till the preferred zoom appears.**

 Every time the user presses [ZOOM] button, a zoom magnification changes 1.5 times (ZOOMX1.5) → 2 times (ZOOMX2) → 3 times (ZOOMX3) → OFF → 1.5 times (ZOOMX1.5) → ... one by one.

2 **To move the enlarged picture, press [∧∨<>] button.**

🎥 1/4

DIFFERENT ANGLE *DVD*

If a disc includes multi angle information, the user can watch a screen in multi angles. The function is limited to a DVD disc supporting multi angle information.

Keep pressing [ANGLE] button till the preferred angle appears.

Every time the user presses [ANGLE] button, an angle degrees changes in a consecutive order.

27

MENU SETUP

SETUP MENU - MAIN PAGE

📺 GENERAL SETUP
💾 PREFERENCES

🔧 EXIT SETUP

GO TO GENERAL SETUP PAGE
SELECT:ENTER   MOVE : É ˆ ˜   EXIT:SETUP

- - GENERAL PAGE - -

📺 TV DISPLAY ▷ NORMAL/PS
   ANGLE MARK   NORMAL/LB
   CAPTIONS   WIDE
   SCR SAVER

⬆ MAIN PAGE

GENERAL SETUP
SELECT:ENTER   MOVE : É ˆ ˜   EXIT:SETUP

- - GENERAL PAGE - -

📺 TV DISPLAY
   ANGLE MARK ▷ ON
   CAPTIONS   OFF
   SCR SAVER

⬆ MAIN PAGE

ANGLE MARK ON/OFF
SELECT:ENTER   MOVE : É ˆ ˜   EXIT:SETUP

- - GENERAL PAGE - -

📺 TV DISPLAY
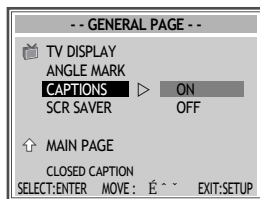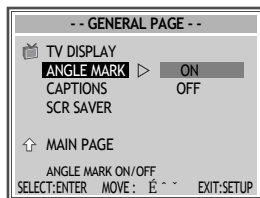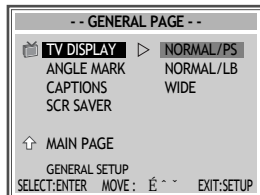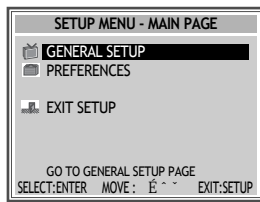   ANGLE MARK
   CAPTIONS ▷ ON
   SCR SAVER   OFF

⬆ MAIN PAGE

CLOSED CAPTION
SELECT:ENTER   MOVE : É ˆ ˜   EXIT:SETUP

- - GENERAL PAGE - -

📺 TV DISPLAY
   ANGLE MARK
   CAPTIONS
   SCR SAVER ▷ ON
                  OFF

⬆ MAIN PAGE

SCREEN SAVER
SELECT:ENTER   MOVE : É ˆ ˜   EXIT:SETUP

GENERAL SETUP

1 Press [SETUP] button to go into SETUP MENU screen.

The left figure appears.

2 Press [ENTER] button to go into GENERAL SETUP screen.

3 TV DISPLAY SETUP

- Select "NORMAL/PS", the user can watch only a center of the original scene of "16:9".
- Select "NORMAL/LB", the user can watch the original scene of "16:9", but the top and bottom of the screen look black color.
- Select "WIDE" . If a disc size is originally recorded in 4:3, a user cannot watch it in a wide screen though a user sets a size as "16:9 Wide".

4 ANGLE MARK SETUP

It only works when there is an angle mark information on the disc.
- Select "ON", the screen shows the mark when playing a DVD.
- Select "OFF", the mark is not shown.

5 CAPTIONS SETUP

CAPTION was invented for hearing impaired person. But it is very useful when learning foreign languages. If your TV supports closed caption, select "ON". If not, closed caption won't be displayed.
- Select "ON", the hidden subtitle is shown.
- Select "OFF", the hidden subtitle is turned off.

6 SCREEN SAVER SETUP

Start the screen saver, the screen saver image appears when the unit stops or the image is frozen for a few minutes. This saver can keep the screen from being damaged.
- Select "ON", the screen saver will be operated.
- Select "OFF", the screen saver won't be operated.

7 Select "MAIN PAGE" and press [ENTER] button to back to MAIN PAGE.

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PREFERENCES SETUP
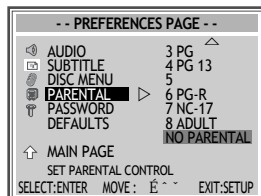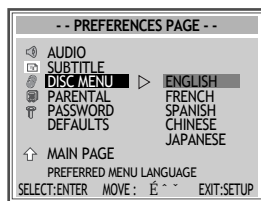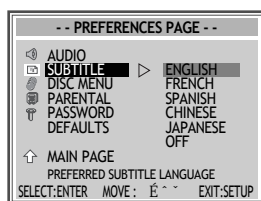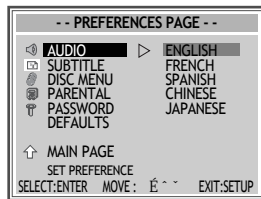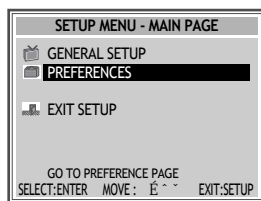
```
  SETUP MENU - MAIN PAGE
📺 GENERAL SETUP
📁 PREFERENCES

📠 EXIT SETUP


   GO TO PREFERENCE PAGE
SELECT:ENTER   MOVE :   É ˆ ˜    EXIT:SETUP
```

You can go into "PREFERENCE" setup screen only when the player are in STOP mode, not in playback or Resume stop mode.

1 Press [SETUP] button to go into SETUP MENU screen.

2 Press [∨] button to select "PREFERENCE".

Press [ENTER] button to go into PREFERENCE screen.

```
    - - PREFERENCES PAGE - -
🔊 AUDIO        ▷   ENGLISH
📺 SUBTITLE          FRENCH
🖊 DISC MENU         SPANISH
📟 PARENTAL          CHINESE
🔧 PASSWORD          JAPANESE
   DEFAULTS

⇧ MAIN PAGE
   SET PREFERENCE
SELECT:ENTER   MOVE :   É ˆ ˜    EXIT:SETUP
```

3 AUDIO LANGUAGE SETUP

Set it as the preferred audio language.

```
    - - PREFERENCES PAGE - -
🔊 AUDIO
📺 SUBTITLE     ▷   ENGLISH
🖊 DISC MENU         FRENCH
📟 PARENTAL          SPANISH
🔧 PASSWORD          CHINESE
   DEFAULTS          JAPANESE
                     OFF
⇧ MAIN PAGE
   PREFERRED SUBTITLE LANGUAGE
SELECT:ENTER   MOVE :   É ˆ ˜    EXIT:SETUP
```

4 SUBTITLE LANGUAGE SETUP

Set it as the preferred subtitle language.

```
    - - PREFERENCES PAGE - -
🔊 AUDIO
📺 SUBTITLE
🖊 DISC MENU    ▷   ENGLISH
📟 PARENTAL          FRENCH
🔧 PASSWORD          SPANISH
   DEFAULTS          CHINESE
                     JAPANESE
⇧ MAIN PAGE
   PREFERRED MENU LANGUAGE
SELECT:ENTER   MOVE :   É ˆ ˜    EXIT:SETUP
```

5 DISC MENU LANGUAGE SETUP

Set it as the preferred Disc Menu language.

```
    - - PREFERENCES PAGE - -
🔊 AUDIO          3 PG    △
📺 SUBTITLE       4 PG 13
🖊 DISC MENU      5
📟 PARENTAL   ▷   6 PG-R
🔧 PASSWORD       7 NC-17
   DEFAULTS       8 ADULT
                  NO PARENTAL
⇧ MAIN PAGE
   SET PARENTAL CONTROL
SELECT:ENTER   MOVE :   É ˆ ˜    EXIT:SETUP
```

6 PARENTAL LOCK SETUP

It consists of 8 levels of parental control, violence, sexual scene, strong sexual scene and others to protect children from watching those scenes.

DVD SETUP

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```
- - PREFERENCES PAGE - -
◁ AUDIO
▣ SUBTITLE
⬮ DISC MENU
▣ PARENTAL
☂ PASSWORD    ▷   CHANGE
   DEFAULTS

⇧ MAIN PAGE
   CHANGE PASSWORD
SELECT:ENTER   MOVE :  É ˆ ˜    EXIT:SETUP
```

```
PASSWORD CHANGE PAGE

☂ OLD PASSWORD     ▭
☂ NEW PASSWORD     ▭
☂ CONFIRM PWD      ▭



   PLEASE ENTER OLD PASSWORD
SELECT:ENTER   MOVE :  É ˆ ˜    EXIT:SETUP
```

```
- - PREFERENCES PAGE - -
◁ AUDIO
▣ SUBTITLE
⬮ DISC MENU
▣ PARENTAL
☂ PASSWORD
   DEFAULTS    ▷   RESET

⇧ MAIN PAGE
   LOAD FACTORY SETTINGS
SELECT:ENTER   MOVE :  É ˆ ˜    EXIT:SETUP
```
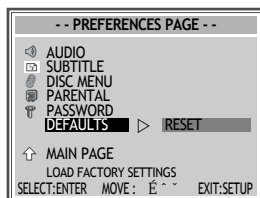
7 PASSWORD CHANGE

For the change of a user's password, please move to "CHANGE" and press [ENTER] button.

Input old password and input new one. Then confirm password.
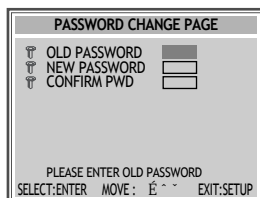
█ **N**OTE █████

The initial password is 3308. In case you forget newly-input password, you can use 3308 as a password.

8 DEFAULTS

Each function setting returns to the initial status in the factory if you select "RESET".

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ABOUT DVD

■ PLAYABLE DISC

• DVD, Video CD (Version 1.1, 2.0), S-VCD and Audio CD

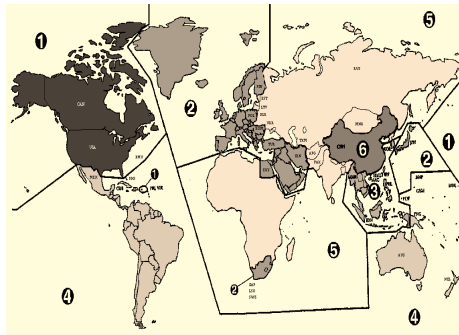| Disc type	Playable	Restriction
DVD	Possible	Region number 1 or Region number All
Video CD	Possible	Version 1.0/1.1/2.0, SVCD/CVD
CD	Possible	PCM
CD-G	Possible	Only Audio playback
CD-ROM	Possible	MP3 File
CD-R	Possible	Video-CD/CD/CD-ROM (MP3 File)
CD-RW	Possible	Video-CD/CD/CD-ROM (MP3 File)
DVD-R	Possible	DVD Video
DVD-RW	Possible	DVD Video
DVD+RW	Possible	DVD Video
DVD-ROM	Impossible	
DVD-RAM	Impossible	
Photo CD	Impossible	

REGION MANAGEMENT INFORMATION

This unit is designed and manufactured to respond to the Region Management information that is recorded on a DVD disc. The region number of this player is "1". If the region number described on the DVD discs does not correspond to the Region number of this player, the player will not play this disc.

This player will play DVD discs made for "ALL" regions. Therefore, this player will play DVD discs marked with labels containing the region number "1" or "ALL".

■ REGION CODE

The product and all DVD disc have region code. So if both codes are not coincided each other, it does not work. Region codes are like the figure.

DVD SETUP

THE OTHERS

31

TERMS RELATED WITH DVD

DVD A DVD (abbreviation of Digital Versatile Disc or Digital Video Disc) can include 135 minutes of video information. And for audio, it can hold up to 8 kinds of languages and 32 kinds of subtitle languages. By using MPEG-2 video compression and digital 3D surround sound, DVD realizes high-defined screen and quality sound like a movie theater.

CDDA A CDDA (abbreviation of Compact disc digital audio) is a music disc that is currently used.

MP3 Audio compression format that enables audio files to be stored and transferred on a computer with a relatively small file size. It enables you to enjoy CD quality music. (Short for MPEG-1 Layer 3)

PBC This is recorded on a Video CD 2.0, Video CD 3.0, SVCD and CVD. The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor. It stands for PlayBack Control.

CHAPTER It means the information recorded in a DVD. A title in a DVD is divided into many tracks, of which a track is called as a chapter. A certain scene of a screen can be quickly searched with the chapter number.

TITLE It means the information recorded in a DVD. A DVD can be divided into may titles.

TRACK It means the information recorded in a video CD and audio CD. A disc consists of many a track, for which a user can search a certain position.

Multi Angle Some DVD discs contain the various scenes that have been simultaneously shot from a number of different angles.

HANDLING DISC
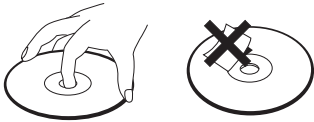
- To keep a disc clean condition, please do not touch a side containing play information.
- Do not attach a bit of paper or sticky tape on it.
- Do not expose a disc to a direct sunlight or electric heating systems.
- After using it, please keep a disc in a case.

CLEANING DISC
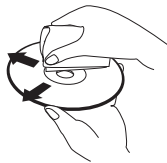
- Before using it, please rub it from center toward outside with clean clothes.
- Do not use any type of solvent such as thinner, benzol (benzene), commercial cleaning goods or antistatic sprays.

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BASIC INFORMATION ABOUT VCP AND VIDEOTAPE

WHAT IS DEW CONDENSATION SYMPTOM?

- If a player is moved from a cool place to a warm and damp place or a place facing a direct cool wind from air-conditioner... and others, temperature varies sharply, which makes dew on head drums of player.

If dew condensation occurs,

1 Do not use the unit with a tape inserted since damage may occur to the tape or the playback head.

2 Leave the unit powered in the "On" state for one or two hours so that it can dry itself out.

HOW TO USE A HEAD CLEANER

- In case of an old or contaminated videotape, the screen display may not be clear due to contamination of the VCP heads. Please remove the contaminants using a commercially available VCP head cleaner, as outlined below:

1 Insert a head-cleaner into VCP.

2 Press [PLAY] for 5 seconds, and then press [FF] for about 10 seconds.

3 Eject the head-cleaner tape from the VCP.

- If the screen is not clean yet, please repeat the above 2 or 3 times more.

- In extreme cases, the player may need to be returned for servicing at the users expense.

THE OTHERS

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Before asking after service for this player, please check the chart below for the possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your unit may eliminate the problem and restore proper operation.

TROUBLE	ACTION
No power	Confirm the vehicle wiring and fuses are OK.
No picture	Make sure that the equipment is connected properly. Make sure that the input setting for the TV is Video (AV).
No sound	Make sure that the equipment is connected properly.
Distorted sound	Make sure that the input settings for the TV and stereo system are correct.
No fast forward or fast reverse	Some discs may have sections that prohibit fast forward or fast reverse.
No proper aspect ratio	Select the correct setup for TV aspect ratio that matches your TV set.
No operations can be performed with the remote control	Check the batteries are installed with the correct polarities. Point the remote control unit at the remote control sensor and operate. Remove the obstacles between the remote control unit and remote control sensor.
No button operation	Set the POWER button to OFF and then back to ON. Alternatively, turn off the power, disconnect the power plug and then reconnect it.
Audio soundtrack and/or Subtitle language is not the one you selected	If the audio soundtrack and/or subtitle language does not exist on the disc, the language selected at the initial settings will not be seen.
No angle change	This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only.

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BEFORE DOUBTING ABOUT TROUBLES (VCP)

SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS
There is no power to the VCP.	• The power cord is not connected. • The polarity of power cord is not correct.	• Check the power cord. • Change the polarity of power cord.
Noise bars on screen.	• Tracking is not adjusted.	• Adjust for a clear picture by pressing the PLAY button.
Operation key does not work.	• If the cassette or the VCP is not in normal condition, every LED indicator lights and the VCP is inoperative.	• Turn the power off and on by pressing the POWER button. • Unplug and re-plug the power cord.
Cassette is ejected upon inserting.	• Safety device works to protect the cassette when it is inserted incorrectly.	• Pull the cassette out (unloading) and insert it firmly into the cassette compartment.
Audio output does not change to Hi-Fi mode.	• The cassette was recorded on a in mono VCR. • The first autotracking attempt is still executing now.	• The cassette can not be played back in Hi-Fi mode. • Wait for a second.
No back-lighting at POWER button.	• No 12V DC.	• Check circuit fuse at source of power (see vehicle/converter manual). • Check in-line fuse of power cord (in lighter plug). • Power cord unplugged from 12V outlet or at rear of unit.
Power indicated with back-lighting but unit will not operate.	• Dew feature activated (See owner's manual for dew mode explanation). • No tape in unit. • Low voltage.	• Retain power to player and allow unit time to get rid of moisture. (After 30 minutes if dew indicator is still on, completely switch off unit power and re-apply after 1 minute. This can reset dew indicator if moisture is eliminated.) • Insert the tape. • Start the vehicle, if not running.

THE OTHERS

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SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS
More indicators flashing; unit will not operate.	• Unit in emergency mode.	• Contact dealer for service to player.
PLAY mode indicated no audio or video on to TV.	• VCP connected to TV A/V Input jack. TV in TV mode	• Switch TV to video mode with remote control or switch behind control door of TV. Refer to your TV Owner's Manual for further information.
	• VCP connected by (75 OHM coax) antenna coax to TV. TV set in "monitor mode".	• Switch to TV mode.
	• VCP connected to A/V OUTPUT jacks of television monitor instead of input.	• Change connections from A/V output to A/V input.
	• Output of VCP A/V RCA cables or coax not connected to TV input.	• Check connector between VCP and TV.
	• Switchable input device used between TV and VCP (game prep).	• Verify proper bypass mode for VCP pass-thru to television monitor.
	• Poor connection between VCP output and TV input.	• Check connection(a).
	• Reversed A/V inputs to TV.	• Check connection(b).
	• Shorted coax cable between VCP and TV.	• Check cable/by pass or continuity test.
Poor video/snowy picture or lines on screen.	• Dirty heads.	• Clean head using tape cartridge cleaner. We recommend using cartridge with cloth or paper tape and cleaning drops included. These are readily available at retail stores.

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SPECIFICATIONS

Power	DC 12V Negative Ground
Consumed electricity	24W (supplementary 2.5W)
Weight	5.3kg
Dimension (WxHxD)	250mm x 135mm x 266.5mm
Operative temperature	-20°C~60°C
Installation condition	Horizontal / Relative humidity under 80%
Signal type	NTSC COLOR
VIDEO input	1.0 Vp-p unbalanced, RCA JACK
AUDIO input	-8.8dBm, RCA JACK
VIDEO output	VIDEO output terminal, 1.0Vp-p unbalanced, RCA JACK
AUDIO output	Audio output terminal (2 kinds): -8.8dBm(VCP), 2.0Vrms(DVD), RCA JACK
Playable tape	Very high density tapes with VHS marks
Playable disc	DVD, VIDEO-CD, CD (12mm), CD (8mm), MP3, CD-R, CD-RW, DVD-RW, DVD+RW
Tape speed	SP: 33.35mm/s, SLP: 11.12mm/s
Playtime	SP: 2hrs, SLP: 6hrs (use of T-120 tape)
VIDEO S/N (VCP)	Over 45dB (Standard recording)
Resolution VCP	Over 220 lines (Standard recording)
DVD	Over 500 lines (DVD Disc PLAY)
AUDIO (VCP)	Over 40dB
AUDIO (DVD)	90dB
AUDIO dynamic range	90dB

90 DAY/12 MONTH LIMITED WARRANTY

APPLIES TO AUDIOVOX VIDEO PRODUCT

AUDIOVOX SPECIALIZED APPLICATIONS, L.L.C. (the company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced (at the company's option) without charge for parts and repair labor. After the initial 90 day period and for a period of 12 months from the date of original purchase, the Company will supply at no charge a replacement for any defective part(s), but will charge for the labor to repair the product.

To obtain repair or replacement within the terms of this warranty, the product is to be delivered with proof of warranty coverage (e.g.:dated bill of sale),specification of defect (s), transportation prepaid, to an approved warranty station, or the Company at the address shown below.

This warranty does not extend to the elimination of externally generated static or noise, to the correction of antenna problems, to costs incurred for removal or reinstallation of the product, or to damage to any tapes, speakers, accessories, or electrical systems.

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