KENWOOD

For Turkey
Bu ürün 26891sayılı Resmi Gazete'de yayımlanan Elektrikli ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlandırılmasına Dair Yönetmeliğe uygun olarak üretilmiştir.
This product complies with Directive, Number 26891 regarding "REGULATION ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT".

The marking of products using lasers

**CLASS 1
LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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- DivX® is a registered trademark of DivX, Inc., and is used under license.
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- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
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This symbol mark indicates that Kenwood manufactured this product so as to decrease harmful influence on the environment.

DVD-RECEIVER

KDV-MP3346
KDV-MP3346M

INSTRUCTION MANUAL

Kenwood Corporation

WARNINGS (to prevent injury or fire):

• Never put or leave any metallic objects (such as coins or metal tools) inside the unit to prevent short circuit.
• DO NOT install any unit or wire any cable in a location where;
  – it may obstruct the steering wheel and gearshift lever operations.
  – it may obstruct the operation of safety devices such as air bags.
  – it may obstruct visibility.
• DO NOT operate the unit while driving.
• If you need to operate the unit while driving, be sure to look around carefully.
• The driver must not watch the monitor while driving.
  If the parking brake is not engaged, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." appears on the monitor, and no playback picture will be shown.
  – This warning appears only when the parking brake lead is connected to the parking brake system built in the car (refer to the Installation/Connection Manual).

Important to know...

• **Lens fogging:** When you turn on the car heater in cold weather, dew or condensation may form on the lens in the DVD player of the unit. This condensation on the lens may not allow discs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.
• When you purchase external components, check with your Kenwood dealer to make sure that they work with your model and in your area.
• Detailed information and notes about the playable audio files are stated in an online manual on the following site: www.kenwood.com/cs/ce/audiofile/

How to attach/detach the control panel
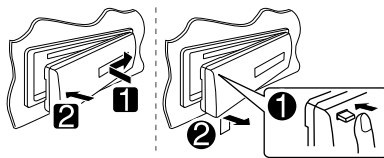
• The control panel is a precision piece of equipment and can be damaged by shocks or jolts.
• Keep the control panel in its hard case while detached.
• Do not expose the control panel (and the hard case) to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
• To prevent deterioration, do not touch the terminals of the unit or control panel with your fingers.

How to reset your unit

If this unit (or the connected external components) fails to operate properly, press the reset button.

The unit returns to factory settings when the reset button is pressed.

How to read this manual

The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may be inapplicable.

The following icons/symbols are used to indicate:

[Hold]	Press and hold the button(s) until the desired operation begins.
	Turn the control knob.
	Turn the control knob to make a selection, then press to confirm.
(🔍 XX)	Reference page number
<XXXX>	Function Control setting item
	Continued on the next page

CONTENTS

Preparation

The display demonstration is always turned on unless you cancel it.
When you turn on the power (or after you reset the unit), the display shows:

"CANCEL" ➞ "DEMO" ➞ "PRESS" ➞ "VOL KNOB"

• If no operation is done for about 15 seconds, **"DEMO START"** appears and the display demonstration starts.

To cancel the display demonstration:
1. Press the control knob.
   "NO/<YES>" is shown on the display.
2. Press the control knob again to select **"YES"**.
   "DEMO OFF" appears on the display.
   • If **"NO"** is selected, **"DEMO START"** appears and the display demonstration starts.

You can also cancel the display demonstration from the Function Control settings, see the following:
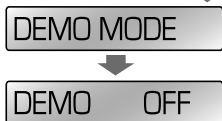
◘ Canceling the display demonstration

1 Turn on the power.

⏻SRC

2 Enter Function Control settings.

FUNCTION

3 Turn the control knob to make a selection, then press to confirm.

DEMO MODE

DEMO   OFF

4 Finish the procedure.

⮥ **[Hold]**

◘ Setting the clock

1 Turn on the power.

⏻SRC

2 Enter Function Control settings.

FUNCTION

3 Turn the control knob to make a selection, then press to confirm.

SYS CTRL

CLOCK ADJ

1 : 00

4 Adjust the hour.

5 Adjust the minute.

1:00

CLOCK ADJ
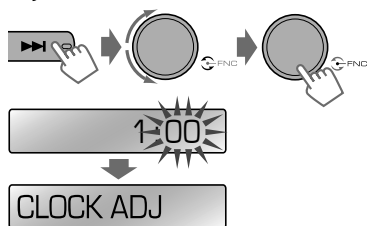
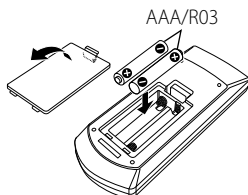Press ◄◄ to return to the hour adjustment.

6 Finish the procedure.

 [Hold]

📄 *While in clock display screen, press and hold* **SCRL DISP** *will enter <CLOCK ADJ> setting directly. Perform steps 4 and 5 to adjust the hour and minute.*

◼ Prepare the remote controller (RC-DV350)

Insert the batteries into the remote controller by matching the polarity (+ and –) correctly.

AAA/R03

If the range or effectiveness of the remote control decreases, replace both batteries.

Caution:
• Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
• Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

◼ Other settings before operations

Before using this unit for the first time, make the following settings for optimum performance.

1 Turn the unit to standby state.
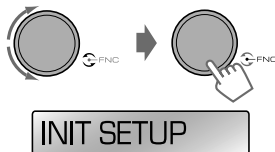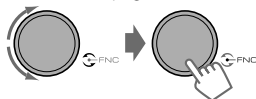
 STANDBY

2 Enter Function Control settings.

 FUNCTION

3 Select "INIT SETUP."

INIT SETUP

4 Turn the control knob to make a selection, then press to confirm.
See table on page 6 for selection.

5 Finish the procedure.

 [Hold]

The following settings can only be done when the unit is on standby state.

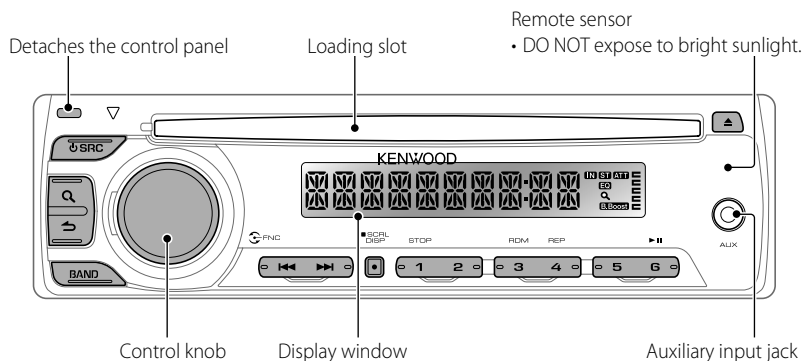| Item	Selectable setting, [__Initial__]	
KEY BEEP	· __ON__	: Activates the keypress tone.
	· OFF	: Deactivates the keypress tone.
TDF ALARM	· ON	: When you turn off the ignition switch of the car, the unit beeps if the control panel is not detached. Detach the control panel to reduce the possibility of theft.
	· __OFF__	: Cancels.
AUX SET (🔍 21)	· __ON__	: Enables "AUX" in source selection.
	· OFF	: Disables "AUX" in source selection.
SWITCH PRE	· __REAR__	: Selects if the REAR/SW terminals on the rear of this unit are used for connecting the speakers (through an external amplifier).
	· SUBW	: Selects if the REAR/SW terminals on the rear of this unit are used for connecting a subwoofer (through an external amplifier).
SP SELECT	—	: Selects the connected speaker size for strong bass and to improved clarity. __OFF__, 5/4, 6 × 9/6, OEM
PAL/NTSC	· __PAL__	: Selects this if your monitor is of the PAL color system.
	· NTSC	: Selects this if your monitor is of the NTSC color system.
FILE TYPE (🔍 20)	· __A + V__	: Selects to play only audio and/or video files.
	· PIC	: Selects to play JPEG files.

When a call comes in...

"CALL" appears on the display and the audio system is paused.
· When the call ends, "CALL" disappears and the audio system resumes.
  You can also resume the audio system by pressing ⏻ **SRC** during a conversation.
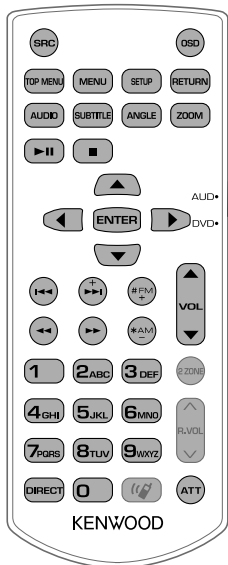
📖 *Make sure the MUTE lead is connected to a mobile phone system in your car.*
   (🔍 Installation/Connection Manual).

Basic operations

�« Control panel

Detaches the control panel

Loading slot

Remote sensor
• DO NOT expose to bright sunlight.

Control knob

Display window

Auxiliary input jack

�« Remote controller (RC-DV350)

When using the remote controller, point the top of the remote control towards the remote sensor as directly as possible.

The operations from the remote controller differ depending on the position of the mode switch.

AUD (audio) mode:
For controlling a selected source or tuner source, etc.
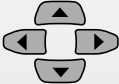
DVD mode:
For controlling playback of a DVD with the player integrated in this unit.

⊟ *You cannot operate the remote controller if the mode switch is in the middle.*

2 ZONE / **R. VOL (∧/∨)** / **((** are not applicable for this unit.

When you press or hold the following button(s)...

Main unit	Remote controller	General operation
🔲 SRC	—	• Turns on. • Turns off if pressed and held.
	(SRC)	Selects the available sources (if the power is turned on). • If the source is ready, playback also starts.
⊙FNC	▲ VOL ▼	Adjusts the volume level. • Selects items if turn the control knob on the main unit.
—	▲ ◀ ▶ ▼	Selects items of the on-screen bar. (🔍 18)
⊙FNC	(ENTER) or (►►I) [AUD]	• Confirms selection. • Enters Function Control settings if pressed the control knob on the main unit. 📖 *If no operation is done for about one minute after pressing the control knob, the operation will be canceled (except if you have selected "AUD CTRL" or "AUD SETUP"). (🔍 22)*
Q	—	Enters Music/Video Search mode. (🔍 13)
⤺	(I◄◄) [AUD]	Returns to the previous menu.
BAND	(#FM+) (AM−)	• Selects the FM bands (F1 / F2 / F3) or AM (in AUD mode if using the remote controller). • Selects the next/previous folder of an DivX/MP3/WMA/WAV disc. (Pressing **BAND** on the main unit can only select the next folders.)
■ SCRL DISP ⊙	—	• Changes the display information. • Scrolls the display information if pressed and held. • Enters clock adjustment mode directly if pressed and held while in clock display screen. (🔍 4, 5)
▲	—	Ejects the disc.
—	(ATT)	Attenuates the sound (if the power is on). "ATT" indicator flashes. • To return to the previous level, press the button again. "ATT" indicator goes off.

Listening to the radio

❶ [🔆SRC]

⇨ "TUNER"

❷ [BAND]

⇨ "F1," "F2," "F3," or "AM"

❸ [|◄◄ ►►|]

"ST" lights up when receiving an FM stereo broadcast with sufficient signal strength.

You can select or set the <TUNER CTRL> settings while listening to the radio.

1 Enter Function Control settings.

FUNCTION

2 Select "TUNER CTRL."

TUNER CTRL

3 Turn the control knob to make a selection, then press to confirm.
See table below for selection.

4 Finish the procedure.

[Hold]

Item	Selectable setting, [**Initial**]	
SEEK MODE Tuning mode	Selects the tuning mode for |◄◄ / ►►| buttons.	
	• **AUTO1**	: Automatically search for a station.
	• **AUTO2**	: Search in order of the stations in the preset memory.
	• **MANU**	: Manually search for station.
A-MEMORY Automatic presetting	You can preset up to 6 stations for each FM and AM band.	
	• **START**[*1]	: Automatically search for stations and stored in to the memory. "A-MEMORY" flashes on the display during search.
	• **CANCEL**	: Returns to item selection menu.
CRSC SET[*2] Clear Reception Stereo Control setting	• **ON**[*3]	: Improve the FM reception, (but the stereo effect may be lost).
	• **OFF**	: Cancels. The stereo effect may be restored automatically (depending on the reception condition).

[*1] *All previously stored stations are erased and stations are stored anew. The station stored in the lowest preset number will be automatically tuned in.*

[*2] *Displayed only when the source is "TUNER (F1/F2/F3)."*

[*3] *Strong electrical fields (such as from power lines) may cause unstable sound quality when <CRSC SET> is set to <ON>. In such situation, set to <OFF>.*

Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

Ex.: Storing FM station of 92.5 MHz into preset number "4" of the F1 band.

1 BAND

⇨ "F1"

2 ◄◄ ►►|

⇨ "92.5"

Make sure <MANU> is selected for <SEEK MODE> in <TUNER CTRL>. (🔍 9)

• To fast-forward/fast-reverse manual search, press and hold |◄◄/►►|.

3 4 **[Hold]**

Preset number "4" flashes for a while.

📖 The previously preset station is erased when a new station is stored in the same preset number.

Selecting a preset station

1 2 3 4 5 6
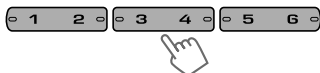
Changing the frequency step

You can change the frequency step of FM/AM:
• **FM** : 50 kHz to 200 kHz
• **AM** : 9 kHz to 10 kHz

1 ⏻SRC **[Hold]**

⇨ Turn off the power.

2 1 + 5 + ⏻SRC
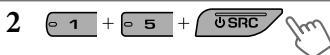
Release your fingers from the buttons after the display appears.

To restore the initial setting, repeat the same procedure.

📖 When the frequency step is changed, the frequencies in the memory are deleted.

Changing the display information

SCRL
DISP

Frequency ➜ Clock ➜ (back to the beginning)

Using the remote controller

|◄◄ ►►| [AUD]   Searches for stations*

1 ... 6MNO [AUD]   Selects preset stations

* *Tuning mode depends on the setting made for <SEEK MODE>. (🔍 9)*

Playable disc type

Disc type	Recording format, file type, etc	Playable
DVD	DVD-Video *1 Region Code: 2 (for KDV-MP3346M) or 3 (for KDV-MP3346) Ex.:	✓ OK
	DVD-Audio / DVD-ROM	✗ NO
DVD Recordable/Rewritable (DVD-R/-RW *2, +R/+RW *3) • DVD Video: UDF bridge • DVD-VR • DivX/MPEG-1/MPEG-2/MP3/WMA/WAV: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video / DVD-VR / DivX / MPEG1 / MPEG2 / JPEG / MP3 / WMA / WAV	✓ OK
	AAC / MPEG4 / DVD+VR / DVD-RAM	✗ NO
Dual Disc	DVD side	✓ OK
	Non-DVD side	✗ NO
CD/VCD	Audio CD / CD Text (CD-DA) / VCD (Video CD)	✓ OK
	DTS-CD / SVCD (Super Video CD) / CD-ROM / CD-I (CD-I Ready)	✗ NO
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA / VCD (Video CD) / DivX / MPEG1 / MPEG2 / JPEG / MP3 / WMA / WAV	✓ OK
	AAC / MPEG4	✗ NO

*1 *If you insert a DVD Video disc of an incorrect Region Code, "REGION CODE ERROR" appears on the monitor.*

*2 *DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.*

*3 *It is possible to play back finalized +R/+RW (Video format only) discs. +RW double layer discs are not playable.*

▤ *When buying DRM enabled contents, check the Registration Code in the <DivX(R) VOD> (🔍 20). Registration Code changes each time a file with the displayed Registration Code is played to protect against copying.*

Use of "DualDisc"

When playing a "DualDisc" on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible. (A "DualDisc" is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

Listening to a disc

Before performing any operations...
Turn on the monitor to watch the playback picture. If you turn on the monitor, you can also control playback of other discs by referring to the monitor screen. (🔍 16 – 20)
• Selects an appropriate color system (PAL/NTSC) for your monitor. (🔍 5, 6)
The disc type is automatically detected, and playback starts automatically (for DVD: automatic start depends on its internal program).

❶ ⟳SRC

⟹ Turn on the power.

❷

If the current disc does not have any disc menu, all tracks will be played repeatedly until you change the source or eject the disc.
• When a disc is inserted, "IN" indicator lights up.

❸ ▶❙❙

⟹ Starts playback if necessary.

If "⊘" appears on the monitor when pressing a button, the unit cannot accept the operation you have tried to do.
• In some cases, without showing "⊘," operations will not be accepted.

▤ • *Do not attempt to insert a disc into the loading slot if another disc is already there.*
• *The unit can only play 12 cm discs. If you insert an 8 cm disc, it will get stuck inside and can cause the unit to malfunction.*
• **Discs with period of use:** *DO NOT leave discs with a limited period of use in this unit. If you load an already expired disc, you may not be able to remove it from this unit.*
• *If you turn off the power while listening to a disc, disc play will start automatically the next time you turn on the power.*
• *If you change the source, playback also stops (without ejecting the disc). Next time you select the disc source as the playback source, disc play starts from where it has been stopped previously.*
• *When removing a disc from the unit, pull it out horizontally.*

Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

To check the Macrovision version

While listening to a DVD...
1 Press the control knob to enter Function Control settings.
2 Turn the control knob to select <SYS CTRL>, then press the control knob to confirm.
3 Turn the control knob to select <M/V FW VER>, then press the control knob.
   The display shows the Macrovision version.

�« Operation using the control panel

Ejects the disc*
"NO DISC" appears and "IN" indicator goes off. Press ⏻ **SRC** to listen to another playback source.

Pauses or resumes playback

Stops playback

Selects title/program/ playlist/folder

Selects chapter/ track/file

[Hold]   **Fast-forwards/ fast-reverses**

* If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. Playback starts automatically.

Selecting a folder or track/file

MPEG DivX®   Audio CD   MP3 WMA WAV   JPEG

1

⇨ Enter Music/Video Search mode. "SEARCH" appears.

2
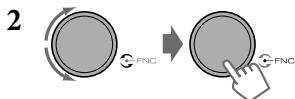
⇨ Select a folder or track/file.

- To return to the folder list, press ◤.
- To return to the root folder, press **BAND**. For audio CD, pressing **BAND** will change to the first track.
- To cancel the Music/Video Search mode, press and hold ◤.

Selecting the playback modes

Random Play

Video CD   Audio CD

"**DISC RDM**" (Disc Random), "**RANDOM OFF**"
- For Video CD: While PBC is not in use

MPEG DivX®   MP3 WMA WAV

"**FOLDER RDM**" (Folder Random), "**RANDOM OFF**"
- Press and hold **RDM** to select "**ALL RDM**."

Repeat Play

DVD-VIDEO

"**CHAP REP**" (Chapter Repeat), "**TITLE REP**" (Title Repeat), "**REPEAT OFF**"

DVD-VR

"**CHAP REP**" (Chapter Repeat), "**PRGM REP**" (Program Repeat), "**REPEAT OFF**"

Video CD   Audio CD

"**TRACK REP**" (Track Repeat), "**REPEAT OFF**"
- For Video CD: While PBC is not in use

MPEG DivX®   MP3 WMA WAV

"**FILE REP**" (File Repeat), "**FOLDER REP**" (Folder Repeat), "**REPEAT OFF**"

JPEG

"**FOLDER REP**" (Folder Repeat), "**REPEAT OFF**"

Changing the display information

`DVD-VIDEO` `DVD-VR`

Title number & Chapter number / Program/Playlist number & Chapter number ➝ Play time ➝ Clock ➝ (back to the beginning)

`Video CD`

Track number*1 & Play time ➝ Clock ➝ (back to the beginning)

`Audio CD`

Disc title ➝ Track title ➝ Track number & Play time ➝ Clock ➝ (back to the beginning)

`MPEG` `DivX®` `MP3` `WMA` `WAV` `JPEG`

Title & Artist name*2 ➝ Album name & Artist name*2 ➝ Folder name ➝ File name ➝ File number & Play time*2 ➝ Clock ➝ (back to the beginning)

---

*1 *While PBC is not in use.*
*2 *For JPEG: "JPEG" appears.*

◘ Operation using the remote controller

Before performing any operations...
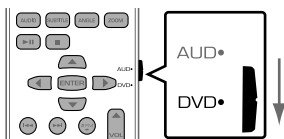
 Pauses or resumes playback

 Stops playback

 Searches for a chapter/track/file

 Selects a title/program/playlist/folder
`DVD-VIDEO` `DVD-VR` `MPEG` `DivX®` `MP3` `WMA` `WAV` `JPEG`

Reverses/fast-forwards

DVD-VIDEO DVD-VR Video CD Audio CD MP3 WMA WAV

"×2, ×5, ×10, ×20, ×60"

MPEG DivX® **"1, 2, 3"**

During pause: **Reverse slow motion***1/**forward slow motion**

DVD-VIDEO DVD-VR Video CD **"1/32, 1/16, 1/8, 1/4, 1/2"**

*1 *Not possible for DVD-VR or Video CD.*

During pause: **Forward frame-by-frame playback**

DVD-VIDEO DVD-VR Video CD
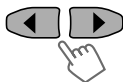
Skip back or forward the scenes by about five minutes*2

MPEG DivX®

*2 *The operation is enable when the Operation bar is not displayed.*

During playback or pause: **Enlarge the video image***3

DVD-VIDEO DVD-VR Video CD MPEG **"1 – 6, OFF"**

*3 *You can move through the zoomed image by pressing ▲ / ▼ / ◄ / ►.*

During pause: **Enlarge the image***3

JPEG **"1, 2, OFF"**

During playback: **Selects a desired camera angle**

DVD-VIDEO

During playback: **Selects different subtitle languages**

DVD-VIDEO DVD-VR MPEG DivX®

During playback: **Changes the audio stream**

DVD-VIDEO DVD-VR MPEG DivX®

During playback: **Changes the audio channel**

Video CD **"ST** (stereo)**, L** (left)**, R** (right)**"**

• Pressing number button 2 on the main unit can also change the audio channel of the VCD.

Direct Search

1

DIRECT

⇨ Select the search mode.

DVD-VIDEO
"**CHAP**" (chapter search), "**TITLE**" (title search), search mode off

DVD-VR
"**CHAP**" (chapter search), "**PRGM**" / "**PLST**" (program/playlist search), search mode off

Video CD
"**NUMBER**" or "**TRACK**" (if PBC is not in use), search mode off

Audio CD
"**TRACK**," search mode off

MPEG/DivX®   MP3/WMA/WAV
JPEG
"**TRACK**," "**FOLDER**," search mode off

2 1 ...9WXYZ 0

⇨ Enter your desired number.

3 ENTER

⇨ Starts playback from the entered time.

- 📖 • *The search mode is cleared automatically after approximately 5 seconds.*
  • *"0" is not displayed in the first digit by pressing the* **0** *button.*
  Ex.: "– –" ➜ *Press* **0**, **2** ➜ *"– 2".*

Using the Disc Menu

DVD-VIDEO

1 MENU

Disc menu is displayed.

2 ◀ ▲ ▶ ▼ ➡ ENTER
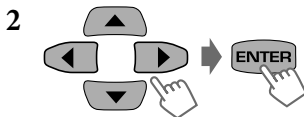
⇨ Select an item.

- To return to the previous menu, press **MENU**.
- To return to the first menu feature, press **TOP MENU**.

DVD-VR

1 TOP MENU

⇨ To show Program list menu.

- - - - - - - - - - - - - or - - - - - - - - - - - - - -

MENU

⇨ To show Playlist menu.

2 ▲ ▼ ➡ ENTER
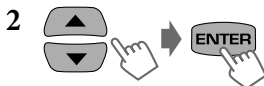
⇨ Select an item.

- To remove the Program list/Playlist menu, press **MENU** or **TOP MENU** again.

PBC (playback control) Menu

Video CD

RETURN

⇨ Return to the menu screen.

Menu settings and operating procedures may differ. Follow the instructions on each menu screen.

To cancel the PBC playback

1. Press ■ to stop.
2. Press **DIRECT**.
3. Press the number buttons.
4. Press **ENTER**.

• To resume PBC, press **TOP MENU** or **MENU**.

On-screen bar operations

DVD-VIDEO DVD-VR Video CD
MPEG DivX® JPEG

Information bar

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ

| DVD-V | DD 2/0 .0ch | C. RPT | T02-C03 | TOTAL 1:25:58 | ▶ |
| TIME ⏱➡ | TITLE➡ | CHAP➡ | RPT | 🔵 | 💬 | 🎥 |

Ⓖ

Operation bar

Ⓐ Disc type
Ⓑ • DVD-Video: Audio signal format type and channel
    • VCD: PBC
Ⓒ Playback mode (🔍 also 19)
   DVD-Video: **C. RPT**: Chapter repeat
              T. RPT: Title repeat
   DVD-VR: **C. RPT**: Chapter repeat
              PG. RPT: Program repeat
   MPEG Video: **T. RPT**: Track repeat
              F. RPT: Folder repeat
              A. RND: All random
              F. RND: Folder random
   VCD*:   **T. RPT**: Track repeat
              A. RND: All random
   JPEG: **F. RPT**: Folder repeat

* While PBC is not in use.

Ⓓ Playback information
   T02-C03   Current title/chapter
   PG001 C002   Current program/chapter
   PL001 C002   Current playlist/chapter
   TRACK 01   Current track
   F001-T001   Current folder/track
   F001-F001   Current folder/file
Ⓔ Time indication
   TOTAL   Elapsed playing time of the disc (For DVD-Video/DVD-VR: Elapsed playing time of the current title/program/playlist.)
   T. REM   DVD-Video/DVD-VR: Remaining title/program/playlist time
                  VCD: Remaining disc time
   TIME   Elapsed playing time of the current chapter/track (except DVD-VR)
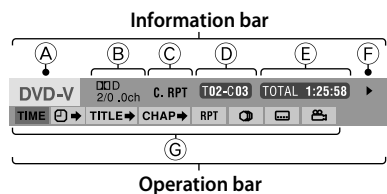   REM   Remaining time of the current chapter/track (except DVD-VR)
Ⓕ Playback status
   ▶   Play
   ▶▶/◀◀   Forward/reverse search
   I▶/◀I   Forward/reverse slow-motion
   II   Pause
   ■   Stop
Ⓖ Operation icons
   TIME   Change time indication (see Ⓔ)
   ⏱➡   Time Search (Enter the elapsed playing time of the current title/program/playlist or of the disc.)
   TITLE➡   Title Search (by its number)
   CHAP➡   Chapter Search (by its number)
   TRACK➡   Track Search (by its number)
   🔵   Change the audio language or audio channel
   💬   Change or turn off the subtitle language
   🎥   Change the view angle
   RPT   Repeat play
   RND   Random play

During playback...

1

Information bar appears.
⇨ Press again to show the operation bar.

2

⇨ Select an item.

3
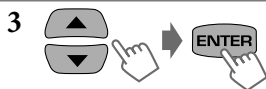
⇨ Make a selection.
For entering time/numbers, see the following.

• To cancel pop-up menu, press **RETURN**.
• To remove the on-screen bar, press **OSD** again.

To enter time/numbers

1. Press ▲/▼ to change the number.
2. Press ◄/► to move to the next entry.
3. Press **ENTER** to confirm.

• Each time you press ▲/▼ the number increases/decreases by one value.
• It is not required to enter the zero and tailing zeros.

Control screen operations

MPEG/DivX®   JPEG   Audio CD
MP3/WMA/WAV
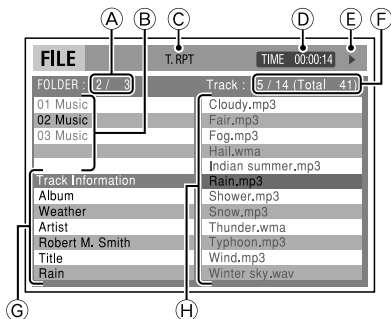
Ⓐ Current folder number/total folder number
Ⓑ Folder list with the current folder selected
   • An image is displayed when an album art is attached to the tag of a playing audio file.
Ⓒ Selected playback mode
Ⓓ Elapsed playing time of the current track
Ⓔ Operation mode icon (►, ■, II, ►►, ◄◄)
Ⓕ Current track number/total number of tracks in the current folder (total number of tracks on the disc)
Ⓖ Track information
Ⓗ Track list with the current track selected

1   MPEG/DivX®   JPEG

⇨ Stops playback to show the control screen.
Audio CD   MP3/WMA/WAV
Control screen appears automatically.

2
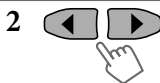
⇨ Selects "Folder" column (except for Audio CD) or "Track" column.

3

⇨ Selects a folder or track.

4 MPEG/DivX® JPEG

⇨ Starts playback.
Audio CD MP3/WMA/WAV
Playback starts automatically.

To select a playback mode

While the control screen is displayed....

1 Press **OSD** to show the playback mode selection screen.

```
          MODE
           ▲
◄        REPEAT        ►
          OFF
           ▼
```
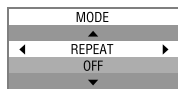
2 Press ◄/► to select a playback mode ("REPEAT" / "RANDOM").

3 Press ▲/▼ to select an item.
   "REPEAT" :
   "TRACK" (track/file repeat)*1, "FOLDER" (folder repeat)*2, "OFF" (repeat off)
   "RANDOM" *1 :
   "FOLDER" (folder random)*2, "ALL" (all random), "OFF" (random off)

4 Press **ENTER**.

*1 *Not selectable for JPEG.*
*2 *Not selectable for audio CD.*

To select a file from List Screen

1 While stop, press **MENU** or **TOP MENU** to show the list screen.

Folder: 153/240	Track:154/198		Page: 4/ 6
fol130	fol140	fol150	fol160
fol131	fol141	fol151	fol161
fol132	fol142	fol152	fol162
fol133	fol143	fol153	fol163
fol134	fol144	fol154	fol164
fol135	fol145	fol155	fol165
fol136	fol146	fol156	fol166
fol137	fol147	fol157	fol167
fol138	fol148	fol158	fol168
fol139	fol149	fol159	fol169

2 Press ▲/▼/◄/► to select a folder, then press **ENTER**.

3 Press ▲/▼/◄/► to select a track, then press **ENTER** to start playback.

• To return to the folder list, press **RETURN**.
• To remove List Screen, press **MENU** or **TOP MENU** again.

Disc setup menu operations

While playing a DVD disc...

1

⇨ Enters disc setup menu.

2

⇨ Selects a menu. (🔍 20)

3

⇨ Selects an item you want to set up. (🔍 20)

4

⇨ Selects an option.

• To cancel the pop-up menu, press **RETURN**.
• To cancel disc setup menu, press **SETUP**.

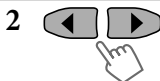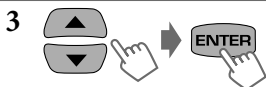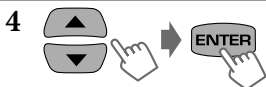| Menu	Item	Setting
LANGUAGE	**MENU LANGUAGE**	Select the initial disc menu language. (🔍 27)
	AUDIO LANGUAGE	Select the initial audio language. (🔍 27)
	SUBTITLE	Select the initial subtitle language or remove the subtitle (OFF). (🔍 27)
	ON SCREEN LANGUAGE	Select the language for the on screen display.
PICTURE	**MONITOR TYPE**	Select the monitor type to watch a wide screen picture on your monitor. **16:9** **4:3 LETTERBOX** **4:3 PAN SCAN**
	OSD POSITION	Select the on-screen bar position on the monitor. • **1** : Higher position • **2** : Lower position (Guidance below the disc setup menu will disappear.)
AUDIO	**DOWN MIX**	When playing back a multi-channel disc, this setting affects the signals reproduced through the rear output terminals. • **SURROUND COMPATIBLE** : Select to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround. • **STEREO** : Normally select this.
	D. RANGE COMPRESSION	You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software. • **AUTO** : Select to apply the effect to multi-channel encoded software (excluding 1-channel and 2-channel software). • **ON** : Select to always use this function.
OTHER	**DivX(R) VOD**	This unit has its own Registration Code. Once you have played back a disc in which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection.
	FILE TYPE	Select playback file type when a disc contains different types of files. • **AUDIO** : Play MP3/WMA/WAV files. • **STILL PICTURE** : Play JPEG files. • **VIDEO** : Play DivX/MPEG Video files. • **AUDIO + VIDEO** : Play MP3/WMA/WAV/DivX/MPEG Video files.

- *When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.*
- *When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.*
- *Even if "4:3 PAN SCAN" is selected, the screen size may become "4:3 LETTERBOX" for some discs.*

Listening to the other external components

You can connect an external component to the AUX (auxiliary) input jack on the control panel.
Preparation: Make sure <ON> is selected for <AUX SET>. (🔍 5, 6)

• For details, refer also to the instructions supplied with the adapter or external components.

❶ [⏻SRC]
⇨ "AUX"

❷ **Turn on the connected component and start playing the source.**

❸
⇨ Adjust the volume.

❹ **Adjust the sound as you want. (🔍 22, 23)**

Connecting an external component to the AUX input jack

AUX

3.5 mm stereo mini plug
(not supplied)

Portable audio player, etc.
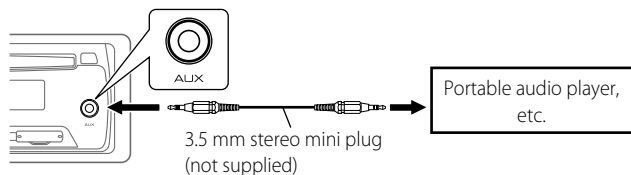
Other adjustments

1 Enter Function Control settings.

FUNCTION

2 Select "AUD CTRL," "DISP CTRL," or "AUD SETUP."
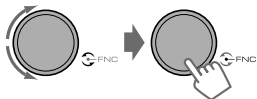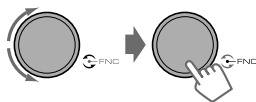
The following settings can be made while:

AUD CTRL : Listening to any source except in STANDBY state or when listening to a phone call.

DISP CTRL : Listening to any source.

AUD SETUP : Listening to any source except in STANDBY state or when listening to a phone call.

3 Turn the control knob to make a selection, then press to confirm.
See table below for selection.

4 Finish the procedure.

[Hold]

	Item	Selectable setting, [Initial]	
AUD CTRL (audio control)	**SW LEVEL** *1	**–15 — +15, [0]**	: Adjusts the subwoofer output level.
	SW SET *1	• **ON** • **OFF**	: Selects to turn on the subwoofer output. : Selects to turn off the subwoofer output.
	BASS BOOST	• **OFF** • **LVL1** • **LVL2**	: Cancels. : Selects your preferred bass boost level.
	SYSTEM Q	• **NATURAL** • **ROCK** • **POPS** • **EASY** • **TOP40** • **JAZZ** • **GAME**	: Selects a preset sound mode suitable to the music genre. "EQ" indicator lights up (except when <**NATURAL**> is selected). <**USER**> appears automatically if you adjust <**BASS LEVEL**>, <**MID LEVEL**>, or <**TRE LEVEL**>.

*1 *Displayed only when <SUBW> is selected for <SWITCH PRE>. (🔍 5, 6)*

Item		Selectable setting, [Initial]	
AUD CTRL (audio control)	**BASS LEVEL** *2	**–8 — +8, [0]**	: Adjusts the bass level of the selected sound mode.
	MID LEVEL *2	**–8 — +8, [0]**	: Adjusts the middle level of the selected sound mode.
	TRE LEVEL *2	**–8 — +8, [0]**	: Adjusts the treble level of the selected sound mode.
	BALANCE	**L15 — R15, [0]**	: Adjusts the left and right speaker output balance.
	FADER	**F15 — R15, [0]**	: Adjusts the front and rear speaker output balance.
DISP CTRL (display control)	**DIMMER SET**	• **ON** • **OFF**	: Dims the display illumination. : Cancels.
	TEXT SCRL	• **AUTO** • **MANU**	: Repeats scrolling automatically (at 5-second intervals). : Scrolls the display information once.
		Press and hold **DISP** to scroll the display information regardless of the setting.	
AUD SETUP (audio setup)	**VOL OFFSET**	**–8 — +8, [0]** (for AUX) **–8 — 0, [0]** (for other sources)	: Preset the volume adjustment level of each source. The volume level will automatically increase or decrease when you change the source. • Before making an adjustment, select the source you want to adjust.
	LPF SW *3	• **85HZ** • **120HZ** • **160HZ** • **THRU**	: Frequencies higher than 85 Hz are cut off. : Frequencies higher than 120 Hz are cut off. : Frequencies higher than 160 Hz are cut off. : All signals are sent to the subwoofer.

*2 *The adjustment made will be stored automatically as <USER> in <SYSTEM Q>.*

*3 *Displayed only when <SW SET> is set to <ON> and <SUBW> is selected for <SWITCH PRE> (🔍 5, 6).*

Troubleshooting

	Symptom	Remedy/Cause
General	Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	"PROTECT" appears on the display and no operations can be done.	Check to be sure the terminals of the speaker leads are covered with insulating tape properly, then reset the unit. (🔍 2) If "PROTECT" does not disappear, consult your nearest service center.
	The unit does not work at all.	Reset the unit. (🔍 2)
FM/AM	Automatic presetting ("A-MEMORY") does not work.	Store stations manually. (🔍 10)
	• Radio reception is poor. • Static noise while listening to the radio.	• Connect the antenna firmly. • Pull the antenna out all the way.
Disc in general	Disc cannot be played back.	• Insert the disc correctly. • Clean the disc. • The disc is severely scratched. Try another disc instead.
	"IN" flashes on the display.	The CD player is not operating properly. Reinsert the disc. If the disc cannot be ejected or the display continue to flash even when the disc has been properly reinserted, switch off the power and consult your nearest service center.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	"NA FILE" appears on the display.	The unit is playing an unsupported audio file.

	Symptom	Remedy/Cause
Disc in general	"NO DISC" appears on the display.	Insert a playable disc into the loading slot.
	"PLEASE" and "EJECT" appear alternately on the display.	The disc is quite dirty, inserted upside down, severely scratched, or unreadable. Press ⏏, then insert a disc correctly.
	"REGION ERR" appears on the display.	The disc you wanted to play has a region code that cannot be played with this unit.
DivX/MPEG Video/MP3/WMA/WAV	Disc cannot be played back.	• Change the disc. • Record the tracks using a compliant application in the appropriate discs. (🔍 11) • Add the extension code <.divx>, <.div>, <.avi>, <.mpg>, <.mpeg>, <.mp3>, <.wma>, or <.wav> to the file names.
	Noise is generated.	Skip to another track or change the disc.
	Tracks cannot play back as you have intended them to play.	Playback order is determined when files are recorded.
	Longer readout time is required. ("READING" keeps flashing on the display.)	Readout time varies due to the complexity of the folder/file configuration. Do not use too many hierarchies and folders.
	No sound can be heard when picture is displayed while playing a DivX/MPEG Video file.	• Record the audio track using MP3 or Dolby Digital as the audio stream of DivX files. • Record the audio track using MPEG1 Audio Layer 2 as the audio stream for MPEG Video files.
	Elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded.
	"PLEASE" and "EJECT" appear alternately on the display.	Insert a disc that contains tracks of appropriate formats.
	Correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.

Maintenance

How to clean the unit

If the control panel is stained, wipe it with a dry soft cloth such as a silicon cloth.
If it is badly stained, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.
• Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the control panel with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

How to clean the connectors

Frequent detachment will deteriorate the connectors.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.
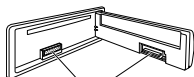
Connectors

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder

• Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).
• Make sure to store discs in cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

• Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.

To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

Single CD (8 cm disc)	Warped disc
Sticker and sticker residue	Stick-on label
Unusual shape	C-thru Disc (semitransparent disc)
Transparent or semitransparent parts on its recording area	

Language codes

Code	Language	Code	Language	Code	Language	Code	Language
ENGLISH	English	ET	Estonian	LN	Lingala	SM	Samoan
SPANISH	Spanish	EU	Basque	LO	Laothian	SN	Shona
FRENCH	French	FA	Persian	LT	Lithuanian	SO	Somali
GERMAN	German	FI	Finnish	LV	Latvian, Lettish	SQ	Albanian
ITALIAN	Italian	FJ	Fiji	MG	Malagasy	SR	Serbian
DUTCH	Dutch	FO	Faroese	MI	Maori	SS	Siswati
SWEDISH	Swedish	FY	Frisian	MK	Macedonian	ST	Sesotho
DANISH	Danish	GA	Irish	ML	Malayalam	SU	Sundanese
RUSSIAN	Russian	GD	Scots Gaelic	MN	Mongolian	SW	Swahili
CHINESE	Chinese	GL	Galician	MO	Moldavian	TA	Tamil
PORTUGUESE	Portuguese	GN	Guarani	MR	Marathi	TE	Telugu
JAPANESE	Japanese	GU	Gujarati	MS	Malay (MAY)	TG	Tajik
AA	Afar	HA	Hausa	MT	Maltese	TH	Thai
AB	Abkhazian	HI	Hindi	MY	Burmese	TI	Tigrinya
AF	Afrikaans	HR	Croatian	NA	Nauru	TK	Turkmen
AM	Ameharic	HU	Hungarian	NE	Nepali	TL	Tagalog
AR	Arabic	HY	Armenian	NO	Norwegian	TN	Setswana
AS	Assamese	IA	Interlingua	OC	Occitan	TO	Tonga
AY	Aymara	IE	Interlingue	OM	(Afan) Oromo	TR	Turkish
AZ	Azerbaijani	IK	Inupiak	OR	Oriya	TS	Tsonga
BA	Bashkir	IN	Indonesian	PA	Panjabi	TT	Tatar
BE	Byelorussian	IS	Icelandic	PL	Polish	TW	Twi
BG	Bulgarian	IW	Hebrew	PS	Pashto, Pushto	UK	Ukrainian
BH	Bihari	JI	Yiddish	QU	Quechua	UR	Urdu
BI	Bislama	JW	Javanese	RM	Rhaeto-Romance	UZ	Uzbek
BN	Bengali, Bangla	KA	Georgian	RN	Kirundi	VI	Vietnamese
BO	Tibetan	KK	Kazakh	RO	Rumanian	VO	Volapuk
BR	Breton	KL	Greenlandic	RW	Kinyarwanda	WO	Wolof
CA	Catalan	KM	Cambodian	SA	Sanskrit	XH	Xhosa
CO	Corsican	KN	Kannada	SD	Sindhi	YO	Yoruba
CS	Czech	KO	Korean (KOR)	SG	Sangho	ZU	Zulu
CY	Welsh	KS	Kashmiri	SH	Serbo-Croatian		
DZ	Bhutani	KU	Kurdish	SI	Singhalese		
EL	Greek	KY	Kirghiz	SK	Slovak		
EO	Esperanto	LA	Latin	SL	Slovenian		

Specifications

AUDIO/VIDEO SECTION	Maximum Power Output:	Front/Rear:	50 W per channel
	Full Bandwidth Power (at less than 1% THD):		22 W per channel
	Speaker Impedance:		4 Ω to 8 Ω
	Tone Action:	Frequency:	Bass: 100 Hz Middle: 1 kHz Treble: 10 kHz
		Level:	±8 dB
	Frequency Response:		40 Hz to 20 000 Hz
	Line-Out Level/Impedance:		2.5 V/20 kΩ load (full scale)
	Subwoofer-Out Level/Impedance:		2.5 V/20 kΩ load (full scale)
	Color System:		NTSC/PAL
	Video Output Level:		1 Vp-p (75 Ω)
	Other Terminal:	AUX (auxiliary) input jack, Antenna input	
TUNER SECTION	Frequency Range:	FM:	200 kHz space: 50 kHz space:	87.9 MHz to 107.9 MHz 87.5 MHz to 108.0 MHz
		AM:	10 kHz space: 9 kHz space:	530 kHz to 1 700 kHz 531 kHz to 1 611 kHz
	FM Tuner:	Usable Sensitivity (S/N = 30 dB):	9.3 dBf (0.8 μV/75 Ω)
		Quieting Sensitivity (S/N = 50 dB):	15.2 dBf (1.6 μV/75 Ω)
		Frequency Response (±3 dB):	30 Hz to 15 000 Hz
		Stereo Separation:	40 dB
	AM Tuner:	Usable Sensitivity (S/N = 20 dB):	28 dBμ (25 μV)

	Signal Detection System:		Non-contact optical pickup (semiconductor laser)
DVD/CD PLAYER SECTION	Number of Channels:		2 channels (stereo)
	Frequency Response:	DVD, fs=48 kHz/96 kHz:	16 Hz to 22 000 Hz
		CD, fs=44.1 kHz:	16 Hz to 20 000 Hz
	Dynamic Range:		90 dB
	Signal-to-Noise Ratio (1 kHz):		90 dB
	Wow and Flutter:		Less than measurable limit
	DivX/MPEG Video:	Video: Max. Resolution:	720 × 480 pixels (30 fps) 720 × 576 pixels (25 fps)
		Audio: Bit Rate:	32 kbps – 320 kbps
		Sampling Frequency (DivX):	MPEG-1: 32 kHz, 44.1 kHz, 48 kHz MPEG-2: 16 kHz, 22.05 kHz, 24 kHz
		Sampling Frequency (MPEG Video):	32 kHz, 44.1 kHz, 48 kHz
	MP3:	Bit Rate:	32 kbps – 320 kbps
		Sampling Frequency:	MPEG-1: 32 kHz, 44.1 kHz, 48 kHz MPEG-2: 16 kHz, 22.05 kHz, 24 kHz
	WMA:	Bit Rate:	32 kbps – 320 kbps
		Sampling Frequency:	22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
	WAV (Linear PCM):	Quantization Bit Rate:	16 bit
		Sampling Frequency:	44.1 kHz
GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Maximum Current Consumption:		15 A
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0℃ to +40℃
	Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 52 mm × 159 mm
		Panel Size:	188 mm × 58 mm × 6 mm
	Mass:		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.