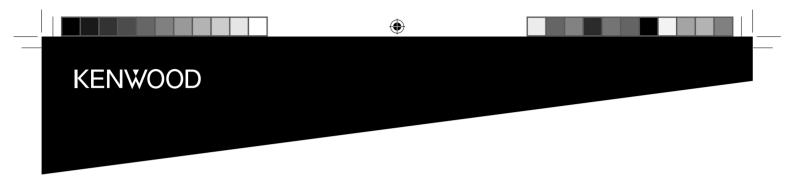


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# DPX-7200DAB

DUAL DIN SIZED CD RECEIVER

INSTRUCTION MANUAL

JVCKENWOOD Corporation











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sha2

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LFS Subsystem

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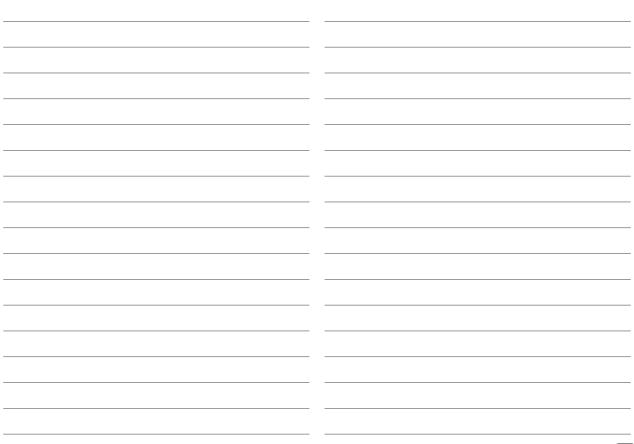
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#### How to read this manual

- The displays and faceplates shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual displays or faceplates.
- Operations are explained mainly using buttons on the faceplate.
- [XX] indicates the selected items.
- (Page XX) indicates references are available on the stated page.



This symbol on the product means there are important operating and maintenance instructions in this manual. Be sure to carefully read instructions in this manual.

### **Before Use**

#### **IMPORTANT**

- To ensure proper use, please read through this manual before using this
  product. It is especially important that you read and observe Warnings and
  Cautions in this manual.
- Please keep the manual in a safe and accessible place for future reference.

#### **▲** WARNING

- Do not operate any function that takes your attention away from safe driving.
- · Do not ingest the battery, Chemical Burn Hazard.

The remote control supplied with this product contains a coin/button cell battery.

If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

#### **A** CAUTION

#### Volume setting:

- Adjust the volume so that you can hear sounds outside the car to prevent accidents
- Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

#### General:

- · Avoid using the external device if it might hinder safe driving.
- Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
- Never put or leave any metallic objects (such as coins or metal tools) inside the unit to prevent a short circuit.

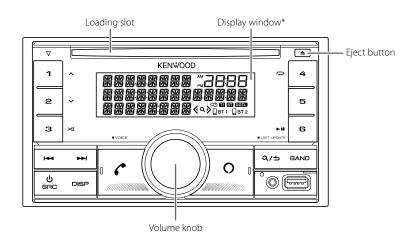
- If a disc error occurs due to condensation on the laser lens, eject the disc and wait for the moisture to evaporate.
- Depending on the types of cars, the antenna will automatically extend when you turn on the unit with the antenna control wire connected (page 35). Turn off the unit or change the source to STANDBY when parking at a low ceiling area.

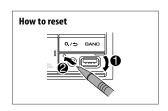
#### Remote control (RC-406):

- Do not leave the remote control in hot places such as on the dashboard.
- Risk of fire or explosion if the battery is replaced by an incorrect type.
   Ensure to replace only with the same type.
- Risk of fire, explosion or the leakage of flammable liquid or gas if the battery is left in an extremely high temperature surrounding environment and/or subjected extremely low air pressure. The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Risk of fire, explosion or the leakage of flammable liquid or gas if the battery is disposed into fire or a hot oven, recharged, shorted, mechanically crushed or cut of the battery.
- If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.

# **Basics**

### Faceplate





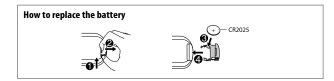
\* Only for illustration purpose.

То	On the faceplate	
Turn on the power	Press <b>O</b> SRC. • Press and hold to turn off the power.	
Adjust the volume	Turn the volume knob.	
Select a source	<ul> <li>Press ⊕SRC repeatedly.</li> <li>Press ⊕SRC, then turn the volume knob within 2 seconds.</li> </ul>	
Change the display information	Press DISP repeatedly. (Page 40)	

#### **Basics**

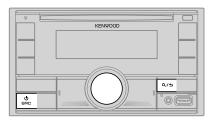
### Remote control (RC-406)





То	On the remote control	
Adjust the volume	Press VOL ∧ or VOL ∨. • Press and hold VOL ∧ to continuously increase the volume to 15.	
	Press ATT during playback to attenuate the sound. • Press again to cancel.	
Select a source	Press SRC repeatedly.	
Turn off the power	Press and hold SRC to turn off the power. ( Pressing SRC does not turn on the power.)	

# **Getting Started**



# 1

### Cancel the demonstration

When you turn on the power for the first time (or [FACTORY RESET] is set to [YES], see page 7), the display shows: "CANCEL DEMO" → "PRESS" → "VOLUME KNOB"

- 1 Press the volume knob.
  [YES] is selected for the initial setup.
- **2** Press the volume knob again. "DEMO OFF" appears.

Then, the display shows the selected crossover type: "2-WAY X'OVER" or "3-WAY X'OVER"

• To change the crossover type, see "Change the crossover type" on page 7.

### **Getting Started**



### Set the clock and date

- 1 Press the volume knob to enter [FUNCTION].
- **2** Turn the volume knob to select [CLOCK], then press the knob.

#### To adjust the clock

- **3** Turn the volume knob to select [CLOCK ADJUST], then press the knob.
- **4** Turn the volume knob to make the settings, then press the knob. Set the time in the order of "Hour" → "Minute".
- **5** Turn the volume knob to select [CLOCK FORMAT], then press the knob.
- **6** Turn the volume knob to select [12H] or [24H], then press the knob.

#### To set the date

- 7 Turn the volume knob to select [DATE FORMAT], then press the knob.
- **8** Turn the volume knob to select [DD/MM/YY] or [MM/DD/YY], then press the knob.
- **9** Turn the volume knob to select [DATE SET], then press the knob.
- 10 Turn the volume knob to make the settings, then press the knob.
  Set the date in the order of "Day" → "Month" → "Year" or "Month" → "Day"
  → "Year".
- 11 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .



### Set the other optional settings

You can only set the following items while the unit is in STANDBY source.

- 1 Press USRC repeatedly to enter STANDBY.
- 2 Press the volume knob to enter [FUNCTION].
- **3** Turn the volume knob to select an item (see the following table), then press the knob.
- 4 Repeat step 3 until the desired item is selected or activated.
- 5 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbf{Q}/\mathbf{\Delta}$ .

6	ENGLISH

[DISPLAY] [EASY MENU] When entering [FUNCTION]... [ON]: [LCD DISPLAY] illumination changes to white color.; [OFF]: [LCD DISPLAY] illumination remains as [COLOR SELECT] color. (Page 30) • [KEY 1] and [KEY 2] illuminations change to light blue color when you enter [FUNCTION], irregardless of the [EASY MENU] setting. • Refer to the illustration on page 30 for zone identification. [TUNER SETTING] [DAB ANT POWER] [ON]: Supplies power to the DAB antenna.; [OFF]: Does not supply power. Selects when using passive antenna without booster. (Page 36) [PRESET TYPE] [NORMAL]: Memorizes one station for each preset button in each band (FM1/FM2/FM3/AM/DB1/DB2/DB3).; [MIX]: Memorizes one station (digital radio or analog radio) for each preset button, regardless of the selected band [SYSTEM] (Applicable only if [X'OVER] is set to [2WAY].) (Page 7) [KEY BEEP] [ON]: Activates the keypress tone.; [OFF]: Deactivates. [SOURCE SELECT] [SPOTIFY SRC] **[ON]**: Enables SPOTIFY/SPOTIFY BT in source selection. : [OFF]: Disables. (Page 15) [BT AUDIO SRC] [ON]: Enables BT AUDIO in source selection. : [OFF]: Disables. (Page 23) [BUILT-IN AUX] [ON]: Enables AUX in source selection.; [OFF]: Disables. (Page 16) [CD READ] [1]: Automatically distinguishes between audio file disc and music CD.; [2]: Forces to play as a music CD. No sound can be heard if an audio file disc is played.

Default: [XX]

### **Getting Started**

[USER S.REMO]	See page 31 for details.
[F/W UPDATE]	
[UPDATE SYSTEM]	/[UPDATE DAB]
[F/W UP xxxx]/ [F/W UP xxxxx]	[YES]: Starts upgrading the firmware. ; [NO]: Cancels (upgrading is not activated).  For details on how to update the firmware, visit <www.kenwood.com ce="" cs=""></www.kenwood.com> .
[FACTORY RESET]	[YES]: Resets the settings to default (except the stored station). ; $\underline{[N0]} : {\sf Cancels}.$

### Change the crossover type

- 1 Press () SRC repeatedly to enter STANDBY.
- 2 Press and hold number buttons 4 and 5 to enter crossover select.
  The current crossover type appears.
- 3 Turn the volume knob to select "2WAY" or "3WAY", then press the knob.
- **4** Turn the volume knob to select "YES" or "NO", then press the knob. The selected crossover type appears.
- To cancel, press and hold Q/⇒.
- To adjust the selected crossover settings, see page 27.

#### **▲** CAUTION

Select a crossover type according to how the speakers are connected. (Page 34, 35)

If you select a wrong type:

- The speakers may damage.
- The output sound level may be extremely high or low.

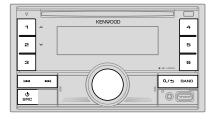
# **Digital Radio**

#### About DAB (Digital Audio Broadcasting)

DAB is one of the digital radio broadcasting systems available today. It can deliver digital quality sound without any annoying interference or signal distortion. Furthermore, it can carry text, pictures and data.

In contrast to FM broadcast, where each program is transmitted on its own frequency, DAB combines several programs (called "services") to form one "ensemble."

The "primary component" (main radio station) is sometimes accompanied by a "secondary component" which can contain extra programs or other information.



#### Preparation:

- Connect the supplied DAB antenna to the DAB antenna jack. (Page 34)
- 2 Press ( SRC repeatedly to select DIGITAL AUDIO.
- 3 Press and hold Q./ ⇒ (LIST UPDATE) to start the Service List update. "LIST UPDATE" appears and update starts. "UPDATED" appears when update completes.
  - Updates take up to 3 minutes. No interruption (such as traffic information) is possible during updates.
- To cancel the Service List update: Press and hold Q / △ (LIST UPDATE)
  again.

### **Digital Radio**

- "DGTL" lights up when receiving DAB digital signal and flashes when receiving a RDS signal.
- The unit switches to DAB alarm automatically when receiving an alarm signal from DAB broadcast.

#### Search for an ensemble

- 1 Press () SRC repeatedly to select DIGITAL AUDIO.
- 2 Press BAND repeatedly (or press #FM+ on the remote control) to select DB1/DB2/DB3.
- 3 Press and hold |◄◄/►►| (or press and hold |◄◄/►►| (+) on the remote control) to search for an ensemble.
- 4 Press |◄◄/►►| (or press |◄◄/►►| (+) on the remote control) to select an ensemble, service or component to listen.

You can store up to 18 services.

- To store a service: Press and hold one of the number buttons (1 to 6).
- To select a stored service: Press one of the number buttons (1 to 6) (or press one of the number buttons (1 to 6) on the remote control).

#### Select a service

- 1 Press Q/ → to enter Service Search mode.
- 2 Turn the volume knob to select a service, then press the knob (or press ▲/▼ to select a service on the remote control).

To cancel the Service Search mode, press **Q**/**⇒** again.

#### Select a service by name

- 1 Press Q/ → to enter Service Search mode.
- 2 Turn the volume knob quickly to enter Alphabet Search mode.
- 3 Turn the volume knob or press I◄◄ / ►►I to select the character to be searched for.
  - Press  $1 \wedge 2 \vee$  to go to the next/previous page.
- 4 Press the volume knob to start searching.
- **5** Turn the volume knob to select a service, then press the knob.

To cancel the Alphabet Search mode, press  $\mathbf{Q}/\mathbf{\Delta}$  again.

### Other settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (page 9), then press the knob.
- **3** Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

### **Digital Radio**

	Default: [XX]
[TUNER SETTING]	
[SEEK MODE]	Selects the searching method for I → I buttons when pressed.  [AUTO1]: Select an ensemble, service or component. Pressing and holding I → I automatically search for an ensemble.; [AUTO2]: Search for a preset service.; [MANUAL]: Select an ensemble, service or component.  Pressing and holding I → I manually search for an ensemble.
[AF SET]	[ON]: While listening to DAB: Automatically switch to FM broadcasting the same program if the DAB signal becomes weak. It will switch back to DAB sound when the signal becomes strong again. While listening to FM: Automatically switch to DIGITAL AUDIO source broadcasting the same program (if available).; [OFF]: Cancels.
[TI]	<b>[ON]</b> : Allows the unit to temporarily switch to Traffic Information if available ("Tl" indicator lights up). ; <b>[OFF]</b> : Cancels.
[PTY SEARCH]	1 Turn the volume knob to select the available Program Type (see "Available Program Type for [PTY SEARCH]" on page 10), then press the knob. 2 Turn the volume knob to select the PTY language ([ENGLISH]/ [FRENCH]/[GERMAN]), then press the knob. 3 Press I◄◄ / ▶►I to start searching.
[ASW SELECT]	[TRAVEL], [WARNINGS], [NEWS], [WEATHER], [EVENT], [SPECIAL], [RAD INFO], [SPORTS], [FINANCE]: Turn the volume knob to make a selection, then press the knob.  "*" appears in front of the activated announcement type.  Automatically switch from any source to Digital radio ensembles broadcasting an activated announcement type.  • Multiple announcement can be activated simultaneously.  • To deactivate, press the volume knob again ("*" goes off).

Dofault: [VV]

[LIST UPDATE]	[AUTO]: Automatically update the DAB Service List when the power is turned on.; [MANUAL]: Updates the DAB Service List by pressing and holding ♥ /★ (LIST UPDATE).
[PTY WATCH]	1 Turn the volume knob to select the available Program Type, then press Q./.  The unit automatically switch from any source to Digital Radio ensembles broadcasting the selected type of program.  Program Type:  [NEWS], [AFFAIRS], [INFO], [SPORT], [EDUCATE], [DRAMA],  [CULTURE], [SCIENCE], [VARIED], [POP M] (music), [ROCK M] (music)  [EASY M] (music), [LIGHT M] (music), [CLASSICS], [OTHER M] (music)  [WEATHER], [FINANCE], [CHILDREN], [SOCIAL], [RELIGION], [PHONE IN], [TRAVEL], [LEISURE], [JAZZ], [COUNTRY], [NATION M] (music),  [OLDIES], [FOLK M] (music), [DOCUMENT]  [OFF]: Cancels.  2 Press the volume knob to enter PTY language selection.  3 Turn the volume knob to select the PTY language ([ENGLISH]/  [FRENCH]/[GERMAN]), then press the knob.
[RELATED SERV]	$\label{lem:conj} \textbf{[ON]}: \textbf{Enable Soft-Link function to switch to an alternative service which is different audio program from the current audio program. ; \\ \underline{\textbf{[OFF]}}: \textbf{Disable}.$
[CLOCK]	
[TIME SYNC]	$\label{eq:condition} \begin{tabular}{ll} $[ON]$: Synchronizes the unit's time to the Digital Radio station time. ; \\ \hline [OFF]$: Cancels. \end{tabular}$

 If the volume is adjusted during reception of traffic information, announcement, alarm or news bulletin, the adjusted volume is memorized automatically. It will be applied the next time traffic information, announcement, alarm or news bulletin is turned on.

### **Digital Radio**

### Available Program Type for [PTY SEARCH]

[SPEECH]:

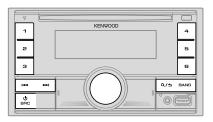
[NEWS], [AFFAIRS], [INFO] (information), [SPORT], [EDUCATE], [DRAMA], [CULTURE], [SCIENCE], [VARIED], [WEATHER], [FINANCE], [CHILDREN], [SOCIAL], [RELIGION], [PHONE IN], [TRAVEL], [LEISURE], [DOCUMENT]

#### [MUSIC]:

[POP M] (music), [ROCK M] (music), [EASY M] (music), [LIGHT M] (music), [CLASSICS], [OTHER M] (music), [JAZZ], [COUNTRY], [NATION M] (music), [OLDIES], [FOLK M] (music)

The unit will search for the Program Type categorized under [SPEECH] or [MUSIC] if selected.

# **Analog Radio**



- "ST" indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.
- The unit switches to FM alarm automatically when receiving an alarm signal from FM broadcast.

#### Search for a station

- 1 Press USRC repeatedly to select RADIO.
- 2 Press BAND repeatedly (or press #FM+/\*AM- on the remote control) to select FM1/FM2/FM3/AM.
- 3 Press |◄◄/▶►| (or press |◄◄/▶►| (+) on the remote control) to search for a station.

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

- To store a station: Press and hold one of the number buttons (1 to 6).
- To select a stored station: Press one of the number buttons (1 to 6) (or press one of the number buttons (1 to 6) on the remote control).

#### **Direct Access Tuning** (using the remote control)

- Press DIRECT to enter Direct Access Tuning.
- **2** Press the number buttons to enter a station frequency.
- **3** Press ENT ▶**11** to search for a station.

### **Analog Radio**

- If no operation is done for 10 seconds after step 2, Direct Access Tuning is automatically canceled.

### Other settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- **3** Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

Default: [XX]

[TUNER SETTING]	
[SEEK MODE]	Selects the searching method for I◄◀ / ▶▶I buttons when pressed. [AUTO1]: Automatically search for a station. ; [AUTO2]: Search for a preset station. ; [MANUAL]: Manually search for a station.
[LOCAL SEEK]	<ul> <li>[ON]: Searches only AM stations with good reception.;</li> <li>[OFF]: Cancels.</li> <li>Settings made are applicable only to the selected source/station. Once you change the source/station, you need to make the settings again.</li> </ul>
[AUTO MEMORY]	<ul> <li>[YES]: Automatically starts memorizing 6 stations with good reception.;</li> <li>[NO]: Cancels.</li> <li>Selectable only if [NORMAL] is selected for [PRESET TYPE]. (Page 6)</li> </ul>
[MONO SET]	[ON]: Improves the FM reception, but the stereo effect will be lost.; [OFF]: Cancels.
[NEWS SET]	[ON]: The unit will temporarily switch to News Programme if available.; [OFF]: Cancels.

[REGIONAL]	<b>[ON]</b> : Switches to another station only in the specific region using the "AF" control. ; <b>[OFF]</b> : Cancels.
[AF SET]	<b>[ON]</b> : Automatically searches for another station broadcasting the same program in the same Radio Data System network with better reception when the current reception is poor.; <b>[OFF]</b> : Cancels.
[ТІ]	[ON]: Allows the unit to temporarily switch to Traffic Information if available ("TI" indicator lights up).; [OFF]: Cancels.  • [TI] in AM band is for enabling traffic interruption to DIGITAL AUDIO source only.
[PTY SEARCH]	<ol> <li>Turn the volume knob to select the available Program Type (see the following "Available Program Type for [PTY SEARCH]"), then press the knob.</li> <li>Turn the volume knob to select the PTY language ([ENGLISH]/ [FRENCH]/[GERMAN]), then press the knob.</li> <li>Press I◄◄ / ▶► I to start searching.</li> </ol>

- [MONO SET]/[NEWS SET]/[REGIONAL]/[AF SET]/[PTY SEARCH] is selectable only when the band is FM1/FM2/FM3.
- If the volume is adjusted during reception of traffic information or news bulletin, the adjusted volume is memorized automatically. It will be applied the next time traffic information or news bulletin is turned on.

#### Available Program Type for [PTY SEARCH]

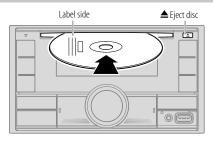
[SPEECH]: [NEWS], [AFFAIRS], [INFO] (information), [SPORT], [EDUCATE], [DRAMA], [CULTURE], [SCIENCE], [VARIED], [WEATHER], [FINANCE], [CHILDREN], [SOCIAL], [RELIGION], [PHONE IN], [TRAVEL], [LEISURE], [DOCUMENT]

[MUSIC]: [POP M] (music), [ROCK M] (music), [EASY M] (music), [LIGHT M] (music), [CLASSICS], [OTHER M] (music), [JAZZ], [COUNTRY], [NATION M] (music), [OLDIES], [FOLK M] (music)

The unit will search for the Program Type categorized under [SPEECH] or [MUSIC] if selected.

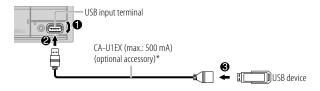
## CD/USB/iPod

#### Insert a disc



The source changes to CD automatically and playback starts.

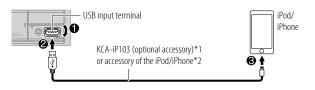
#### **Connect a USB device**



The source changes to USB automatically and playback starts.

\* Do not leave the cable inside the car when not in use.

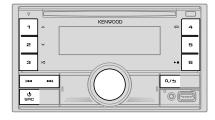
#### Connect an iPod/iPhone



The source changes to iPod USB automatically and playback starts.

- You can also connect iPod/iPhone via Bluetooth. (Page 18)
- \*1 KCA-iP103: Lightning type
- \*2 Do not leave the cable inside the car when not in use.

### **Basic operations**



#### CD/USB/iPod

То	On the faceplate	On the remote control
Play back/pause	Press 6 ► II.	Press ENT ▶■.
Reverse/Fast-forward	Press and hold I◀◀ / ▶►I.	Press and hold I◄ / ▶►I (+).
Select a track/file	Press I◀◀ / ▶►I.	Press <b>I◄◄ / ▶▶I</b> (+).
Select a folder*1	Press 1∧/2∨.	Press #FM+/*AM
Repeat play*2	Press 4 <b>♀</b> repeatedly.	
	[TRACK REPEAT]/[ALL REPEAT]: Audio CD [File Repeat]/[folder repeat]/[all repeat]: MP3/ WMA/AAC/WAV/FLAC file [repeat one]/[repeat all]/[repeat off]: iPod	
Random play*2	Press 3 ➤ repeatedly.	
	[DISC RANDOM]/[RANDOM OFF]: Audio CD [FOLDER RANDOM]/[RANDOM OFF]: MP3/WMA/AAC/ WAV/FLAC file [SHUFFLE ON]/[SHUFFLE OFF]: iPod	
	Press and hold 3 ≠ to select [ALL RANDOM].*1	

<sup>\*1</sup> For CD: Only for MP3/WMA/AAC files. This does not work for iPod.

#### Select music drive

While in USB source, press 5 repeatedly.

Stored songs in the following drive will be played back.

- Selected internal or external memory of a smartphone (Mass Storage Class).
- · Selected drive of a multiple drive device.

You can also select the music drive from the [FUNCTION] menu.

- 1 Press the volume knob to enter [FUNCTION].
- **2** Turn the volume knob to select [USB], then press the knob.
- **3** Turn the volume knob to select [MUSIC DRIVE], then press the knob.
- **4** Turn the volume knob to select [DRIVE CHANGE], then press the knob. The next drive ([DRIVE 1] to [DRIVE 4]) is selected automatically and playback starts.
- **5** Repeat step 1 to step 4 to select the following drives.
- 6 Press and hold Q / → to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{L}$ .

### Select control mode

While in iPod USB source (or iPod BT source), press 5 repeatedly.

[MODE ON]: Control iPod/iPhone using the iPod/iPhone itself. However, you can still perform play/pause, file skip, fast-forward or fast-reverse from this unit.

[MODE OFF]: Control iPod/iPhone from this unit.

#### Direct Music Search (using the remote control)

- Press DIRECT.
- 2 Press the number buttons to enter a track/file number.
- Press ENT ► II to search for music.
- · Not available if Random Play is selected.
- Not applicable for iPod USB source.

<sup>\*2</sup> For iPod: Applicable only when [MODE OFF] is selected.

#### CD/USB/iPod

### Select a file to play

### From a folder or list

- For iPod, applicable only when [MODE OFF] is selected. (Page 13)
- 1 Press Q/★.
- 2 Turn the volume knob to select a folder/list, then press the knob.
- **3** Turn the volume knob to select a file, then press the knob. Selected file starts playing.

### **Quick search** (applicable only for CD source and USB source)

If you have many files, you can search through them quickly.

- 1 Press Q/→.
- **2** Turn the volume knob to select a folder/list, then press the knob.
- **3** Turn the volume knob quickly to browse through the list quickly.
- **4** Turn the volume knob to select a file, then press the knob. Selected file starts playing.

### Skip search (applicable only for iPod USB source and iPod BT source)

If you have many files in the selected list, you can perform the following to search for a file by skipping through the list at a rate selected in [SKIP SEARCH].

- For iPod, applicable only when [MODE OFF] is selected. (Page 13)
- 1 Press Q / .
- **2** Turn the volume knob to select a list, then press the knob.
- 3 Press | ✓ ✓ / ► ► I to search at a preset skip search ratio.
  - Pressing and holding I◄◄ / ►►I searches at a 10% ratio irregardless of the ISKIP SEARCHI settings.
- **4** Turn the volume knob to select a file, then press the knob. Selected file starts playing.

#### [SKIP SEARCH] setting

- 1 Press the volume knob to enter [FUNCTION].
- **2** Turn the volume knob to select [USB], then press the knob.
- **3** Turn the volume knob to select [SKIP SEARCH], then press the knob.
- 4 Turn the volume knob to select the skip search ratio, then press the knob.

[0.5%] (default)/[1%]/[5%]/[10%]

The skip search ratio is shown as a percentage of the total files.

5 Press and hold Q/⇒ to exit.

### Alphabet search (applicable only for iPod USB source and iPod BT source)

You can search for a file according to the first character.

- For iPod, applicable only when [MODE OFF] is selected. (Page 13)
- 1 Press Q /★.
- 2 Turn the volume knob to select a list, then press the knob.
- **3** Turn the volume knob quickly to enter character search.
- 4 Turn the volume knob to select the character.
  - Select "\*" to search for a character other than A to Z, 0 to 9.
- **5** Press | **◄ | >** I to move to the entry position.
  - · You can enter up to 3 characters.
- 6 Press the volume knob to start searching.
- **7** Turn the volume knob to select a file, then press the knob. Selected file starts playing.
- To return to the root folder/first file/top menu, press 5. (Not applicable for BT AUDIO source.)
- To return to the previous setting item, press Q/≤.
- To cancel, press and hold Q/≤.

# **Spotify**

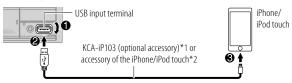
You can listen to Spotify on iPhone/iPod touch (via Bluetooth or via USB input terminal) or Android device (via Bluetooth) (page 18).

#### Preparation:

- Install the latest version of the Spotify application on your device (iPhone/ iPod touch or Android device), then create an account and log in to Spotify.
- Select [ON] for [SPOTIFY SRC] in [SOURCE SELECT]. (Page 6)

### **Start listening**

- 1 Start up the Spotify application on your device.
- 2 Connect your device to the USB input terminal.



You can also connect the iPhone/iPod touch or Android device via Bluetooth. (Page 18)

- Make sure the USB input terminal is not connected to any device when you connect via Bluetooth.
- 3 Press OSRC repeatedly to select SPOTIFY (for iPhone/iPod touch) or SPOTIFY BT (for Android device).

Broadcast starts automatically.

- \*1 KCA-iP103: Lightning type
- \*2 Do not leave the cable inside the car when not in use.

То	On the faceplate	On the remote control
Play back/pause	Press 6 ► II.	Press ENT ►■.
Skip a track	Press <b>I◄◄*</b> 1 / <b>▶►I</b> .	Press <b>I◄◄*</b> 1 / <b>▶▶I</b> (+).
Select thumbs up or thumbs down*2	Press 1 ∧ / 2 ∨.	Press #FM+/*AM
Start radio	Press and hold 5.	( Not available )
Repeat play*3	Press 4 ← repeatedly.	
	[REPEAT ALL]/[REPEAT ONE]*1/ [REPEAT OFF]	( Not available )
Random play*3	Press 3 ≭ repeatedly*1.	( Not available )
	[SHUFFLE ON]/[SHUFFLE OFF]	

<sup>\*1</sup> Available for premium account users only.

### Save favorite song information

While listening to the Radio on Spotify...

### Press and hold the volume knob.

"SAVED" appears and the information is stored to "Your Music" or "Your Library" on your Spotify account.

To unsave, repeat the same procedure.

"REMOVED" appears and the information is removed from "Your Music" or "Your Library" on your Spotify account.

<sup>\*2</sup> This feature is available for tracks in Radio only. If thumbs down is selected, the current track is skipped.

<sup>\*3</sup> Available for tracks in Playlists only.

### Spotify

### Search for a song or station

- Press Q / ★.
- 2 Turn the volume knob to select a list type, then press the knob. The list types displayed differ depending on the information sent from Spotify.
- 3 Turn the volume knob (or press ▲/▼ on the remote control) to select the desired song or station.
- 4 Press the volume knob (or press ENT ► III on the remote control) to confirm.

You can browse through the list quickly by turning the volume knob quickly.

To cancel, press and hold  $\mathbb{Q}/\mathbf{\Delta}$ .

### **AUX**

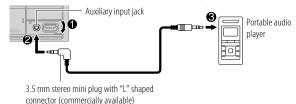
You can listen to music from a portable audio player via the auxiliary input jack.

#### Preparation:

Select [ON] for [BUILT-IN AUX] in [SOURCE SELECT]. (Page 6)

### **Start listening**

1 Connect a portable audio player (commercially available).



- 2 Press () SRC repeatedly to select AUX.
- 2 Press Osh Crepeatedly to select AOX.
- 3 Turn on the portable audio player and start playback.

#### Set the name of the external device

While listening to a portable audio player connected to the unit...

- 1 Press the volume knob to enter [FUNCTION].
- **2** Turn the volume knob to select [SYSTEM], then press the knob.
- **3** Turn the volume knob to select [AUX NAME SET], then press the knob.
- 4 Turn the volume knob to select an item, then press the knob.
  [AUX] (default)/[DVD]/[PORTABLE]/[GAME]/[VIDE0]/[TV]
- 5 Press and hold Q / ⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

# **Using Other Applications**

### **KENWOOD Remote application**

You can control the KENWOOD car receiver from iPhone/iPod touch (via Bluetooth or via USB input terminal) or Android device (via Bluetooth) using KENWOOD Remote application.

• For more information, visit <a href="http://www.kenwood.com/cs/ce/">http://www.kenwood.com/cs/ce/>.

### Preparation:

Install the latest version of KENWOOD Remote application on your device before connecting.

### **Start using KENWOOD Remote application**

- 1 Start up the KENWOOD Remote application on your device.
- 2 Connect your device.
- For Android device:
  - Pair the Android device with this unit via Bluetooth. (Page 18)
  - · For iPhone/iPod touch:
  - Connect iPhone/iPod touch to the USB input terminal. (Page 12) (or)

Pair the iPhone/iPod touch with this unit via Bluetooth. (Page 18) (Make sure the USB input terminal is not connected to any device.)

3 Select the device to use from the [FUNCTION] menu.

See the following "Settings to use KENWOOD Remote application". By default, [ANDROID] is selected. To use iPhone/iPod touch, select [YES] for [IOS].

### **Settings to use KENWOOD Remote application**

- 1 Press the volume knob to enter [FUNCTION].
- **2** Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

ı	REMOTE APP]	
ı	[SELECT]	Selects the device ([IOS] or [ANDROID]) to use the application.
	[IOS]	[YES]: Selects iPhone/iPod touch to use the application via Bluetooth or connected via USB input terminal.; [NO]: Cancels. If [IOS] is selected, select iPod BT source (or iPod USB source if your iPhone/iPod touch is connected via USB input terminal) to activate the application.  The connectivity of the application will be interrupted or disconnected if:  You change from iPod BT source to any playback source connected via the USB input terminal.  You change from iPod USB source to iPod BT source.
	[ANDROID]	$\underline{\text{[YES]}}\textsc{:}$ Selects Android device to use the application via Bluetooth. ; $\overline{\text{[NO]}}\textsc{:}$ Cancels.
١	[ANDROID LIST]	Selects the Android device to use from the list.  Displayed only when [ANDROID] of [SELECT] is set to [YES].
[STATUS]		Shows the status of the selected device. [IOS CONNECTED]: You are able to use the application using the iPhone/ iPod touch connected via Bluetooth or USB input terminal. [IOS NOT CONNECTED]: No iOS device is connected to use the application. [ANDROID CONNECTED]: You are able to use the application using the Android device connected via Bluetooth. [ANDROID NOT CONNECTED]: No Android device is connected to use the application.

#### Tuneln Radio/Tuneln Radio Pro

While listening to Tuneln Radio or Tuneln Radio Pro, connect the iPhone/iPod touch to the USB input terminal of the unit so that the unit will output the sound from these applications.

Default: [XX]

- Depending on the Bluetooth version, operating system and the firmware version of your mobile phone, Bluetooth features may not work with this unit.
- Be sure to turn on the Bluetooth function of the device to make the following operations.
- · Signal conditions vary depending on the surroundings.

#### **Bluetooth** — Connection

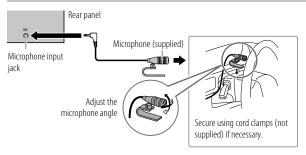
### **Supported Bluetooth profiles**

- Hands-Free Profile (HFP)
- Advanced Audio Distribution Profile (A2DP)
- Audio/Video Remote Control Profile (AVRCP)
- Serial Port Profile (SPP)
- Phonebook Access Profile (PBAP)

### **Supported Bluetooth codecs**

- Sub Band Codec (SBC)
- Advanced Audio Coding (AAC)

### **Connect the microphone**



#### Pair and connect a Bluetooth device for the first time

- 1 Press  $\bigcirc$  SRC to turn on the unit.
- 2 Search and select the name of your receiver ("DPX-7200DAB") on the Bluetooth device.

"PAIRING" → "PASS XXXXXX" → "Device name" → "PRESS" → "VOLUME KNOB" appears on the display.

- For some Bluetooth devices, you may need to enter the Personal Identification Number (PIN) code immediately after searching.
- 3 Press the volume knob to start pairing.

"PAIRING OK" appears when pairing is completed.

Once pairing is completed, Bluetooth connection is established automatically.

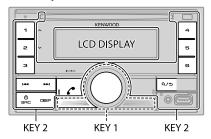
- "Двт 1" and/or "Двт 2" indicator on the display window lights up.
- Depending on the settings made for [BATT/SIGNAL] (page 20), the strength of the battery and signal of the connected device are shown on the supplementary display (page 40).
- · This unit supports Secure Simple Pairing (SSP).
- · Up to five devices can be registered (paired) in total.
- Once the pairing is completed, the Bluetooth device will remain registered in the unit even if you reset the unit. To delete the paired device, see [DEVICE DELETE] on page 22.
- A maximum of two Bluetooth phones and one Bluetooth audio device can be connected at any time. To connect or disconnect the registered device, see [PHONE SELECT] or [AUDIO SELECT] in [BT MODE]. (Page 22)
- However, while in BT AUDIO source, you can connect to five Bluetooth audio devices and switch between these five devices. (Page 23)
- Some Bluetooth devices may not automatically connect to the unit after pairing. Connect the device to the unit manually.
- Refer to the instruction manual of the Bluetooth device for more information.

### **Auto Pairing**

When you connect iPhone/iPod touch to the USB input terminal, pairing request (via Bluetooth) is automatically activated if [AUTO PAIRING] is set to [ON]. (Page 22)

Press the volume knob to pair once you have confirmed the device name.

#### Bluetooth — Mobile phone



#### Receive a call

When there is an incoming call:

- [KEY 1] zone and [KEY 2] zone illuminate in green color and flash.
- The unit answers the call automatically if [AUTO ANSWER] is set to a selected time. (Page 20)

#### During a call:

- [LCD DISPLAY] zone illuminates according to the settings made for [COLOR SELECT] (page 30) while [KEY 1] zone and [KEY 2] zone illuminate in green color.
- If you turn off the unit, Bluetooth is disconnected.

The following operations may differ or be unavailable depending on the connected phone.

То	On the faceplate	On the remote control
First incoming call		
Answer a call	Press <b>?</b> or the volume knob or one of the number buttons (1 to 6).	Press <b>C</b> .
Reject a call	Press <b>Q/</b> ★.	Press 🚗.
End a call	Press <b>Q/</b> ★.	Press .
While talking on the first in	ncoming call	
Answer another incoming call and hold the current call	Press <b>C</b> .	Press C.
Reject another incoming call	Press <b>Q</b> / <b>≤</b> .	Press .
While having two active c	alls	
End current call and activate held call	Press <b>Q/≤</b> .	Press .
Swap between the current call and held call	Press <b>C</b> .	Press C.
Adjust the phone volume*1 00] to [35] (Default: [15])	Turn the volume knob during a call.	Press VOL <b>^</b> *2 or VOL <b>∨</b> during a call.
Switch between hands- free and private talk modes*3	Press 6 ▶ ■ during a call.	( Not available )

<sup>\*1, \*2, \*3:</sup> See page 20.

- \*1 This adjustment will not affect the volume of the other sources.
- \*2 Press and hold VOL to continuously increase the volume to 15.
- \*3 Operations may vary according to the connected Bluetooth device.

### Improve the voice quality

While talking on the phone...

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- **3** Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbf{Q}/\mathbf{\Delta}$ .

Default: [XX]

[MIC GAIN]	[LEVEL – 10] to [LEVEL + 10] ([LEVEL – 4]): The sensitivity of the microphone increases as the number increases.
[NR LEVEL]	[LEVEL –5] to [LEVEL +5] ([LEVEL 0]): Adjust the noise reduction level until the least noise is being heard during a phone conversation.
[ECHO CANCEL]	[LEVEL —5] to [LEVEL +5] ([LEVEL 0]): Adjust the echo cancellation delay time until the least echo is being heard during a phone conversation.

### Make the setting for receiving a call

- 1 Press 🖍 to enter Bluetooth mode.
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold Q / → to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

Default: [XX]

[SETTINGS]	
[AUTO ANSWER]	[1] to [30]: The unit answers incoming call automatically in the selected time (in seconds). ; $[0FF]$ : Cancels.
[BATT/SIGNAL]*	<b>[AUTO]</b> : Shows the strength of the battery and signal on the supplementary display (page 40) when the unit detects a Bluetooth device and the Bluetooth device is connected.; <b>[OFF]</b> : Cancels.

<sup>\*</sup> Functionality depends on the type of the phone used.

#### Make a call

You can make a call from the call history, phonebook, or dialing the number. Call by voice is also possible if your mobile phone has the feature.

1 Press C to enter Bluetooth mode.

"(First device name)" appears.

- If two Bluetooth phones are connected, press again to switch to the other phone.
  - "(Second device name)" appears.
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

#### [CALL HISTORY]

(Applicable only if the phone supports PBAP.)

1 Press the volume knob to select a name or a phone number.

- "INCOMING," "OUTGOING" or "MISSED" is shown on the lower part of the display to indicate the previous call status.
- · Press DISP to change the display category (NUMBER or NAME).
- "NO DATA" appears if there is no recorded call history or call number.
- 2 Press the volume knob to call.

#### [PHONE BOOK]

(Applicable only if the phone supports PBAP.)

**1** Turn the volume knob quickly to enter alphabet search mode (if the phonebook contains many contacts).

The first menu (ABCDEFGHIJK) appears.

- To go to the other menu (LMNOPQRSTUV or WXYZ1★), press 1 / 2 ✓.
- To select the desired first letter, turn the volume knob or press
   I◄◄/►►I, then press the knob.

Select "1" to search with numbers and select " $\star$ " to search with symbols.

- 2 Turn the volume knob to select a name, then press the knob.
- 3 Turn the volume knob to select a phone number, then press the knob to call.
- For using phonebook with this unit, make sure to allow access to or transfer from your smartphone. Depending on the connected phone, the process may be different.
- · Contacts are categorized as: HOME, OFFICE, MOBILE, OTHER, GENERAL
- This unit can display only non-accent letters. (Accent letters such as "Ú" are shown as "U".)

#### [NUMBER DIAL]

- 1 Turn the volume knob to select a number (0 to 9) or character (★, #, +).
  2 Press | ◄ ◄ / ▶ ▶ I to move the entry position.
  - Repeat step 1 and step 2 until you finish entering the phone number.
- 3 Press the volume knob to call.

(or using the remote control)

- **1** Press the number buttons (0 to 9) to enter the phone number.
- 2 Press C to call

### [VOICE]

Speak the name of the contact you want to call or the voice command to control the phone functions. (See also the following "Make a call using voice recognition".)

[LOW]/[MID]/[FULL]: Shows the strength of the battery.\*

[NO SIGNAL]/[LOW]/[MID]/[MAX]: Shows the strength of the current received signal.\*

### Make a call using voice recognition

- Press and hold VOICE to activate the voice recognition of the connected phone.
- 2 Speak the name of the contact you want to call or the voice command to control the phone functions.
- Supported Voice Recognition features vary for each phone. Refer to the instruction manual of the connected phone for details.

### Store a contact in memory

You can store up to 6 contacts into the number buttons (1 to 6).

- 1 Press C to enter Bluetooth mode.
- 2 Turn the volume knob to select [CALL HISTORY], [PHONE BOOK] or [NUMBER DIAL], then press the knob.
- 3 Turn the volume knob to select a contact or enter a phone number. If a contact is selected, press the volume knob to show the phone number.
- 4 Press and hold one of the number buttons (1 to 6).

"STORED" appears when the contact is stored.

To erase a contact from the preset memory, select [NUMBER DIAL] in step 2, store a blank number in step 3 and proceed to step 4.

### Make a call to a registered number

- 1 Press C to enter Bluetooth mode.
- 2 Press one of the number buttons (1 to 6).
- 3 Press the volume knob to call.

"NO MEMORY" appears if there is no contact stored.

<sup>\*</sup> Functionality depends on the type of the phone used.

### **Bluetooth mode settings**

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- **3** Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q/⇒ to exit.

To return to the previous setting item, press  $\mathbf{Q}/\mathbf{\Delta}$ .

Default: [XX]

[BT MODE]	
[PHONE SELECT]	Selects the phone or audio device to connect or disconnect. "*" appears in front of the device name when connected.
[AUDIO SELECT]	<ul> <li>"&gt;" appears in front of the current playback audio device.</li> <li>You can connect a maximum of two Bluetooth phones and one Bluetooth audio device at a time.</li> </ul>
[DEVICE DELETE]	1 Turn the volume knob to select a device to delete, then press the knob. 2 Turn the volume knob to select [YES] or [NO], then press the knob.
[PIN CODE EDIT] (0000)	Changes the PIN code (up to 6 digits).  1 Turn the volume knob to select a number.  2 Press I ✓ ✓ / ► I to move the entry position.  Repeat step 1 and step 2 until you finish entering the PIN code.  3 Press the volume knob to confirm.
[RECONNECT]	[ON]: The unit is automatically reconnect when the last connected Bluetooth device is within the connectable range. ; [OFF]: Cancels.
[AUTO PAIRING]	[ON]: The unit is automatically paired with the supported Bluetooth device (iPhone/iPod touch) when it is connected through USB input terminal. Depending on the operating system of the connected device, this function may not work.; [OFF]: Cancels.

[INITIALIZE]	[YES]: Initializes all the Bluetooth settings (including stored pairing,
	phonebook, and etc.). ; <b>[NO]</b> : Cancels.

#### Bluetooth test mode

You can check the connectivity of the supported profile between the Bluetooth device and the unit.

- · Make sure there is no Bluetooth device paired.
- 1 Press and hold **?**.
  "PLEASE PAIR YOUR PHONE PIN 0000" appears on the display.
- 2 Search and select the name of your receiver ("DPX-7200DAB") on the Bluetooth device.
- **3** Operate the Bluetooth device to confirm pairing. "TESTING" flashes on the display.

### The connectivity result (OK or NG) appears after the test.

PAIRING: Pairing status

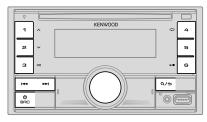
HF CNT: Hands-Free Profile (HFP) compatibility

AUD CNT: Advanced Audio Distribution Profile (A2DP) compatibility

PB DL: Phonebook Access profile (PBAP) compatibility

To cancel test mode, press and hold  $\bigcirc$  SRC to turn off the unit.

#### Bluetooth — Audio



While in BT AUDIO source, you can connect to five Bluetooth audio devices and switch between these five devices.

### Listen to the audio player via Bluetooth

- 1 Press © SRC repeatedly (or press SRC on the remote control) to select BT AUDIO.
- 2 Operate the audio player via Bluetooth to start playback.

То	On the faceplate	On the remote control
Play back/pause	Press 6 ► III.	Press ENT ► III.
Select group or folder	Press 1∧/2∨.	Press #FM+/*AM
Reverse skip/ Forward skip	Press I◀◀ / ▶▶I.	Press I◀◀ / ▶▶I (+).
Reverse/Fast-forward	Press and hold I◀◀ / ▶▶I.	Press and hold I◀◀ / ▶▶I (+).

То	On the faceplate
Repeat play	Press 4 <b>⇔</b> repeatedly.
	[ALL REPEAT]/[FILE REPEAT]/[GROUP REPEAT]*/ [REPEAT OFF]
Random play	Press and hold 3 ★ to select [ALL RANDOM] or [GROUP RANDOM]*.
	• Press 3 ≠ to select [RANDOM OFF].
Select a file from a folder/list	Refer to "Select a file to play" on page 14.
Switch between connected Bluetooth audio devices	Press 5. (Pressing the "Play" key on the connected device itself also causes switching of sound output from the device.)

<sup>\*</sup> Depending on the connected device, some devices may not support this feature.

Operations and display indications may differ according to their availability on the connected device

#### Listen to iPod/iPhone via Bluetooth

You can listen to the songs on the iPod/iPhone via Bluetooth on this unit.

Press **U**SRC repeatedly to select iPod BT.

- You can operate the iPod/iPhone in the same way as iPod/iPhone via USB input terminal. (Page 12)
- If you plug in an iPod/iPhone to the USB input terminal while listening to iPod BT source, the source automatically changes to iPod USB source.
   Press OSRC to select iPod BT source if the device is still connected via Bluetooth.

### **AMAZON ALEXA**

Alexa is the cloud-based voice service developed by Amazon. You can ask Alexa to play music, get weather reports, traffic information, control smart home devices, shop on Amazon, search the internet, set reminders and more.

#### Preparation:

- · Create an account at <www.amazon.com>.
- Install the latest version of the Alexa mobile application on your device (iPhone/iPod touch or Android device), then log in to the application.
- Be sure to enable the internet connection on your smartphone.

### Setup for the first time

#### For Android device

- 1 Pair your device with this unit via Bluetooth. (Page 18)
- 2 Start up the Alexa mobile application on your device.
- **3** Pair this unit to Alexa mobile application. Perform Option A or Option B..

#### For iPhone/iPod touch

- 1 Pair your device with this unit via Bluetooth. (Page 18)
- 2 Start up the Alexa mobile application on your device.
- **3** Press O on the unit to enter ALEXA source.
  - You may also press 🖒 SRC repeatedly to select iPod BT source.
- **4** Pair this unit to Alexa mobile application. Perform Option A or Option B..

#### **Option A: Direct Link**

Access the following URL or scan the QR code with your smartphone:

### https://www.kenwood.com/car/alexa



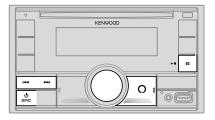
#### **Option B: Manual Pairing**

- 1 Start up the Alexa mobile application and go to the "Devices" tab.
- **2** Tap the " + " icon at the top right corner.
- 3 Tap "Add Device".
- 24 ENGLISH

- 4 Tap "Automotive Accessory" or "Headphones" from the list of device types.
- **5** Tap the name of your receiver ("DPX-7200DAB") and follow the instructions.

Once the setup process is completed, the Alexa mobile application will establish a connection with this unit.

- · The Alexa connection can be disconnected if:
  - A2DP profile is disconnected
  - Bluetooth is disconnected
  - This unit is turned off
- Any other conditions depending on the connected device.
   To establish Alexa connection again, reconnect the A2DP profile.
- · Alexa connection cannot be established again if you:
  - Reinstall Alexa mobile application
- Delete the paired device and perform pairing again (for Android device)
   To establish Alexa connection again, perform the setup process again.
- You can check the Alexa connection from the Alexa mobile application.
   If the name of this unit appears on the screen of "ALL DEVICES", you do not need to perform setup process again.



### **Basic operations**

Once Alexa connection is established...

1 Press O on the unit to speak with Alexa.

The display shows: "ALEXA" → "LISTENING...".

#### **AMAZON ALEXA**

- 2 Communicate with Alexa via the connected microphone. (Page 18) "THINKING..." appears when Alexa is processing your voice input. "SPEAKING..." appears while Alexa is responding to your voice input. "ALEXA" or display information such as playing time, song title, etc. appears while Alexa is in idle state.
- To return to the previous source before ALEXA, press OSRC (or press SRC on the remote control).
- To activate Alexa, press O.
- · To cancel current listening state, press O.
- To cancel current thinking/speaking states and go to listening state, press O.
- · Only one Alexa connection can be connected at one time.
- "DISCONNECTED" appears if the unit is disconnected from Alexa mobile application or the Bluetooth connection is disconnected.

### **Start listening**

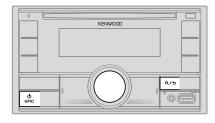
While in Alexa idle state...

- **1** Press O on the unit to activate Alexa. The display shows: "LISTENING...".
- 2 Communicate with Alexa via the connected microphone. (Page 18)
- **3** During music playback in ALEXA source, you can perform the following operations:

То	On the faceplate	On the remote control
Play back/pause	Press 6 ► III.	Press ENT ► III.
Reverse skip/Forward skip	Press I◀◀ / ▶▶I.	Press <b>I◄◄</b> / <b>▶▶I</b> (+).

During music playback, press **O** to pause the music and activate Alexa. You can now start to communicate with Alexa.

# **Audio Settings**



- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press and hold Q/⇒ to exit.

(or using the remote control)

- 1 Press AUD to enter [AUDIO CONTROL].
- 2 Press ▲/▼ to select an item, then press ENT ▶ II.

To return to the previous setting item, press  $\mathbb{Q}/\mathbf{\Delta}$ .

Default: [XX]

	Beladia <u>Po</u>		
[AUDIO CONTRO	[AUDIO CONTROL]		
[SUB-W LEVEL]	[LEVEL $-50$ ] to [LEVEL $+10$ ] ([LEVEL $0$ ]): $t$ level.	Adjusts the subw	oofer output
[EASY EQ]	Adjusts your own sound settings.  The settings are stored to [USER] in [PRES - The settings made may affect the current s [SW]: [LEVEL –50] to [LEVEL +10] [BASS]: [LEVEL –9] to [LEVEL +9] [MID]: [LEVEL –9] to [LEVEL +9] [TRE]: [LEVEL –9] to [LEVEL +9]		UAL EQ]. [LEVEL 0] [LEVEL +1] [LEVEL -6] [LEVEL +3])

[MANUAL EQ]	The settings are	sound settings for each sour stored to [USER] in [PRESE de may affect the current se	T EQ].
[62.5HZ]	[LEVEL]	[LEVEL +9] to [LEVEL +9] ([LEVEL +5]): Adjusts the level to memorize for each source. (Before making an adjustment, select the source you want to adjust.)	
	[BASS EXTEND]	[ON]: Turns on the extend	ed bass. ; [OFF]: Cancels.
[100HZ]/[160HZ]/ [250HZ]/[400HZ]/ [630HZ]/[1KHZ]/ [1.6KHZ]/[2.5KHZ]/ [4KHZ]/[6.3KHZ]/ [10KHZ]/[16KHZ]	(Before making an [100HZ]: [LEVE [160HZ]: [LEVE [250HZ]: [LEVE [400HZ]: [LEVE [1.6KHZ]: [LEVE [1.6KHZ]: [LEVE [4KHZ]: [LEVE [4KHZ]: [LEVE [6.3KHZ]: [LEVE [10KHZ]: [LEVE [100KHZ]: [100KHZ]: [LEVE [100KHZ]:	o memorize for each source. a djustment, select the sour L — 91 to [LEVEL +9]	
[Q FACTOR]	[1.35]/[1.50]/[2.	00]: Adjusts the quality fact	or.
[PRESET EQ]	[USER]: Selects a	K]/[POPS]/[EASY]/[TOP40 oreset equalizer suitable to t use the settings made in [EA	he music genre.
[BASS BOOST]	[LEVEL1] to [LEVI [OFF]: Cancels.	EL5]: Selects your preferred	bass boost level. ;
[LOUDNESS]		2]: Selects your preferred lov well-balanced sound at lov	2 1

[SUBWOOFER SET]	[ON]: Turns on the subwoofer output.; [OFF]: Cancels.
[FADER]	(Not applicable if 3-way crossover is selected.)  [R15] to [F15] ([0]): Adjusts the front and rear speaker output balance.
[BALANCE]	[L15] to [R15] ([0]): Adjusts the left and right speaker output balance.
[VOLUME OFFSET]	[-15] to [+6] ([0]): Presets the initial volume level of each source by comparing to the FM volume level. (Before adjustment, select the source you want to adjust.)
[SOUND EFFECT]	
[SOUND RECNSTR] (Sound reconstruction)	(Not applicable for RADIO source, DIGITAL AUDIO source and AUX source.)  [ON]: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression.; [OFF]: Cancels.
[SPACE ENHANCE]	(Not applicable for RADIO source and DIGITAL AUDIO source.)  [SMALL]/[MEDIUM]/[LARGE]: Virtually enhances the sound space.;  [OFF]: Cancels.
[SND REALIZER]	[LEVEL1]/[LEVEL2]/[LEVEL3]: Virtually makes the sound more realistic.; [OFF]: Cancels.
[STAGE EQ]	<b>[LOW]/[MIDDLE]/[HIGH]:</b> Virtually adjusts the sound position heard from the speakers. ; <b>[OFF]</b> : Cancels.
[DRIVE EQ]	[ON]: Boosts the frequency to reduce the noise heard from outside the car or running noise of the tyres.; [OFF]: Cancels.
[SPEAKER SIZE]	Depending on the crossover type you have selected (see "Change the crossover type" on page 7), 2-way crossover or 3-way crossover
[X ' OVER]	setting items will be shown. (See "Crossover settings" on page 27.) By default, 2-way crossover type is selected.
[DTA SETTINGS] [CAR SETTINGS]	For settings, see "Digital Time Alignment settings" on page 28.

• [SUB-W LEVEL] is selectable only when [SUBWOOFER SET] is set to [ON].

### **Crossover settings**

Below are the available setting items for 2-way crossover and 3-way crossover.

#### SPEAKER SIZE

Selects according to the connected speaker size for optimum performance.

- The frequency and slope settings are automatically set for the crossover of the selected speaker.
- If [NONE] is selected for the following speaker in [SPEAKER SIZE], the [X'OVER] setting of the selected speaker is not available.
  - 2-way crossover: [TWEETER] of [FRONT]/[REAR]/[SUBWOOFER]
  - 3-way crossover: [W00FER]

#### X'OVER (crossover)

- [FRQ]/[F-HPF FRQ]/[R-HPF FRQ]/[SW LPF FRQ]/[HPF FRQ]: Adjusts the
  crossover frequency for the selected speakers (high pass filter or low pass
  filter).
- If [THROUGH] is selected, all signals are sent to the selected speakers.
- [SLOPE]/[F-HPF SLOPE]/[R-HPF SLOPE]/[SW LPF SLOPE]/[HPF SLOPE]/[LPF SLOPE]: Adjusts the crossover slope.
- Selectable only if a setting other than [THROUGH] is selected for the crossover frequency.
- [SW LPF PHASE]/[PHASE]: Selects the phase of the speaker output to be in line with the other speaker output.
- [GAIN LEFT]/[GAIN RIGHT]/[F-HPF GAIN]/[R-HPF GAIN]/[SW LPF GAIN]/[GAIN]: Adjusts the output volume of the selected speaker.

### 2-way crossover setting items

[SPEAKER SIZE]			
[FRONT]	[SIZE]	[8CM]/[10CM]/[12CM]/[13CM]/ <u>[16CM]</u> /[17CM]/ [18CM]/[4×6]/[5×7]/[6×8]/[6×9]/[7×10]	
	[TWEETER]	[SMALL]/[MIDDLE]/[LARGE]/[NONE] (not connected)	
[REAR]		[12CM]/[13CM]/ <u>[16CM]</u> /[17CM]/[18CM]/[4×6]/ i×9]/[7×10]/[NONE] (not connected)	
[SUBWOOFER]	[16CM]/[20CM]/[25CM]/[30CM]/[38CM OVER]/[NONE] (not connected)		
[X'OVER]			
[TWEETER]	[FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/ <u>[4KHZ]</u> /[5KHZ]/ [6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]	
	[GAIN LEFT]	[-8] to [0]	
	[GAIN RIGHT]	[-8] to [ <u>0</u> ]	
[FRONT HPF]	[F-HPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/ [220HZ]/[250HZ]/ <u>[THROUGH]</u>	
	[F-HPF SLOPE]	[-6DB]/ <u>[-12DB]</u> /[-18DB]/[-24DB]	
	[F-HPF GAIN]	[-8] to [ <u>0]</u>	
[REAR HPF]	[R-HPF FRQ]		
	[R-HPF SLOPE]	Configure the settings for the rear speakers similarly to the front speakers.	
	[R-HPF GAIN]	to the nonespeakers.	

[SUBWOOFER LPF]	[SW LPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/ [220HZ]/[250HZ]/[THROUGH]
	[SW LPF SLOPE]	[-6DB]/[-12DB]/[-18DB]/[-24DB]
	[SW LPF PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[SW LPF GAIN]	[-8] to [0]

• [SUBWOOFER] of [SPEAKER SIZE] and [SUBWOOFER LPF] of [X'OVER] is selectable only when [SUBWOOFER SET] is set to [0N]. (Page 26)

## 3-way crossover setting items

[SPEAKER SIZE]			
[TWEETER]	[SMALL]/[MIC	DDLE]/[LARGE]	
[MID RANGE]	[8CM]/[10CM [5×7]/[6×8]/	]/[12CM]/[13CM]/ <u>[16CM]</u> /[17CM]/[18CM]/[4×6]/ /[6×9]	
[WOOFER]		[16CM]/[20CM]/[25CM]/[30CM]/[38CM OVER]/[NONE] (not connected)	
[X'OVER]			
[TWEETER]	[HPF FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/ <u>[4KHZ]</u> /[5KHZ]/ [6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]	
	[SLOPE]	[-6DB]/ <u>[-12DB]</u>	
	[PHASE]	[REVERSE] (180°)/[NORMAL] (0°)	
	[GAIN]	[-8] to <u>[0]</u>	

[MID RANGE]	[HPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[ <u>120HZ]</u> /[150HZ]/[180HZ]/ [220HZ]/[250HZ]/[THROUGH]
	[HPF SLOPE]	[-6DB]/ <u>[-12DB]</u>
	[LPF FRQ]	[1KHZ]/[1.6KHZ]/[2.5KHZ]/ <u>[4KHZ]</u> /[5KHZ]/ [6.3KHZ]/[8KHZ]/[10KHZ]/[12.5KHZ]/[THROUGH]
	[LPF SLOPE]	[-6DB]/ <u>[-12DB]</u>
	[PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[GAIN]	[-8] to [ <u>0]</u>
[WOOFER]	[LPF FRQ]	[30HZ]/[40HZ]/[50HZ]/[60HZ]/[70HZ]/[80HZ]/ [90HZ]/[100HZ]/[120HZ]/[150HZ]/[180HZ]/ [220HZ]/[250HZ]/[THROUGH]
	[SLOPE]	[-6DB]/ <u>[-12DB]</u>
	[PHASE]	[REVERSE] (180°)/[NORMAL] (0°)
	[GAIN]	[-8] to [0]

• [WOOFER] of [SPEAKER SIZE] and [WOOFER] of [X'OVER] is selectable only when [SUBWOOFER SET] is set to [ON]. (Page 26)

### **Digital Time Alignment settings**

Digital Time Alignment sets the delay time of the speaker output to create a more suitable environment for your vehicle.

• For more information, see "Determining the delay time automatically" on page 29.

[DTA SETTINGS]		
[POSITION]	Selects your listening position (reference point).  [ALL]: Not compensating; [FRONT RIGHT]: Front right seat;  [FRONT LEFT]: Front left seat; [FRONT ALL]: Front seats  • [FRONT ALL] is displayed only when [2-WAY X'OVER] is selected.  (Page 7)	
[DISTANCE]	[OCM] to [610CM]: Fine adjust the distance to compensate. (Before making an adjustment, select the speaker you want to adjust.)	
[GAIN]	[—8DB] to [ODB]: Fine adjust the output volume of the selected speaker. (Before making an adjustment, select the speaker you want to adjust.)	
[DTA RESET]	[YES]: Resets the settings ([DISTANCE] and [GAIN]) of the selected [POSITION] to default.; [NO]: Cancels.	
[CAR SETTINGS]	Identify your car type and rear speaker location in order to make the adjustment for [DTA SETTINGS].	
[CAR TYPE]	[COMPACT]/[FULL SIZE CAR]/[WAGON]/[MINIVAN]/[SUV]/ [MINIVAN(LONG)]: Selects the type of vehicle.; [OFF]: Not compensating.	
[R-SP LOCATION]	Selects the location of the rear speakers in your vehicle to calculate the furthest distance from the listening position selected (reference point).  • [DOOR]/[REAR DECK]: Selectable only when [CAR TYPE] is selected as [OFF], [COMPACT], [FULL SIZE CAR], [WAGON] or [SUV].  • [2ND ROW]/[3RD ROW]: Selectable only when [CAR TYPE] is selected as [MINIVAN] or [MINIVAN(LONG)].	

 Before making an adjustment for [DISTANCE] and [GAIN] of [DTA SETTINGS], select the speaker you want to adjust:

When 2-way crossover is selected:

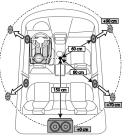
### [FRONT LEFT]/[FRONT RIGHT]/[REAR LEFT]/[REAR RIGHT]/[SUBWOOFER]

 You can only select [REAR LEFT], [REAR RIGHT] and [SUBWOOFER] if a setting other than [NONE] is selected for [REAR] and [SUBWOOFER] of [SPEAKER SIZE]. (Page 27) When 3-way crossover is selected:

#### [TWEETER LEFT]/[TWEETER RIGHT]/[MID LEFT]/[MID RIGHT]/[WOOFER]

- You can only select [WOOFER] if a setting other than [NONE] is selected for [WOOFER] of [SPEAKER SIZE]. (Page 28)
- [R-SP LOCATION] of [CAR SETTINGS] is selectable only if:
  - 2-way crossover is selected. (Page 7)
  - A setting other than [NONE] is selected for [REAR] of [SPEAKER SIZE]. (Page 27)

#### Determining the delay time automatically



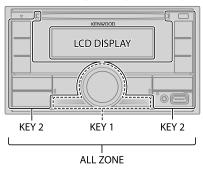
If you specify the distance from the currently set listening position to every speaker, the delay time will be automatically calculated.

- 1 Set [POSITION] and determine the listening position as the reference point (the reference point for [FRONT ALL] will be the center between the right and left in the front seats).
- **2** Measure the distances from the reference point to the speakers.
- **3** Calculate the distance between the furthest speaker (subwoofer on the illustration) and other speakers.
- **4** Sets the **[DISTANCE]** calculated in step 3 for individual speakers.
- 5 Adjusts [GAIN] for individual speakers.

Example: When  $\mbox{[FRONT ALL]}$  is selected as the listening position.

# **Display Settings**

Zone identification for color settings and brightness settings



#### Set the dimmer

Press and hold DISP to turn on or off the dimmer.

• Once you press and hold this button, [DIMMER] setting will be overwritten.

### Change the display settings

- 1 Press the volume knob to enter [FUNCTION].
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- **3** Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press and hold Q / ⇒ to exit.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

[DISPLAY] [COLOR SELECT] Selects illumination colors for [ALL ZONE], [LCD DISPLAY], [KEY 1] and [KEY 2] separately. **1** Select a zone. (See the illustration on left column.) 2 Select a preset color for the selected zone. (Page 31) Default: [VARIABLE SCAN] To make your own color, select [CUSTOM R/G/B]. The color you have made will be stored in [CUSTOM R/G/B]. 1 Press the volume knob to enter the detailed color adjustment. 2 Press | ◀ ◀ / ▶ ▶ I to select the color ([R]/[G]/[B]) to adjust. **3** Turn the volume knob to adjust the level ([0] to [9]), then press the knob. [DIMMER] Dims the illumination [ON]: Dimmer is turned on. [OFF]: Dimmer is turned off. [DIMMER TIME]: Set the time to turn on dimmer and to turn off dimmer. 1 Turn the volume knob to adjust the [ON] time, then press the knob. 2 Turn the volume knob to adjust the [OFF] time, then press the knob. Default: [ON]: [PM6:00]: [OFF]: [AM6:00] [BRIGHTNESS] Sets the brightness for day and night separately. 1 [DAY]/[NIGHT]: Select day or night. 2 Select a zone. (See the illustration on left column.) 3 [LEVEL 00] to [LEVEL 31]: Set the brightness level. **ITEXT SCROLL** [ONCE]: Scrolls the display information once, : [AUTO]: Repeats scrolling at 5-second intervals.; [OFF]: Cancels. Not applicable to Dynamic Label display information (page 40) while in DIGITAL AUDIO source

Default: [XX]

## **Display Settings**

[CLOCK]	
[CLOCK DISPLAY]	<b>[0N]</b> : The clock time is shown on the display even when the unit is turned off.; <b>[0FF]</b> : Cancels.
[DEMO MODE]	[ON]: Activates the display demonstration automatically if no operation is done for about 15 seconds.; [OFF]: Deactivates.

#### Preset color:

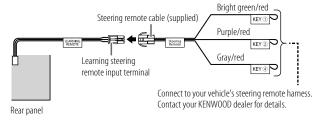
[INITIAL COLOR]/[VARIABLE SCAN]/[CUSTOM R/G/B]/[RED1]/[RED2]/[RED3]/[PURPLE1]/ [PURPLE2]/[PURPLE3]/[PURPLE4]/[BLUE1]/[BLUE2]/[BLUE3]/[SKYBLUE1]/[SKYBLUE2]/ [LIGHTBLUE]/[AQUA1]/[AQUA2]/[GREEN1]/[GREEN2]/[GREEN3]/[YELLOWGREEN1]/ [YELLOWGREEN2]/[YELLOW]/[ORANGE1]/[ORANGE2]/[ORANGERED]

## **Learning Steering Remote Control**

You can control the unit with the steering remote control keys on your vehicle. After connection, you can configure the control keys according to your preference.

- You can only make this configuration if your vehicle is equipped with the electrical steering remote control.
- If the steering remote control in your car is not compatible, configuration may not be completed and an error message may appear. (Page 41)

#### Make the connection



## Configure the control keys

- 1 Press USRC repeatedly to enter STANDBY.
- 2 Press the volume knob to enter [FUNCTION].
- **3** Turn the volume knob to select [SYSTEM], then press the knob.
- **4** Turn the volume knob to select [USER S.REMO], then press the knob.
- 5 Turn the volume knob to select [SET KEY], then press the knob.

  A key list of 16 assignable keys appears.
  - [K## NONE]: No function has been assigned.
- **6** Turn the volume knob to select any key from the key list to assign the function, then press the knob.

"PRESS KEY TO ASSIGN K##" appears.

## **Learning Steering Remote Control**

7 Press and hold any control keys on your steering remote control which you want to assign.

A list of key functions will appear on the display.

[NONE] (default)/[ATT]/[SEEK UP]/[SEEK DOWN]/[VOL UP]/[VOL DOWN]/[MODE]/ [ON HOOK]/[OFF HOOK]/[VOICE]/[ENTER]

**8** Turn the volume knob to select a function to assign, then press the knob.

The selected key function is assigned to the steering remote control key you have selected in step 7.

The display returns to the key list as on step 5.

- [K## (Function)]: When certain function has been assigned to a key.
- **9** Repeat step 6 to step 8 to assign other control keys.
- **10** Press and hold  $Q/\Rightarrow$  to exit.

## Reassign the control keys

- 1 Press USRC repeatedly to enter STANDBY.
- 2 Press the volume knob to enter [FUNCTION].
- **3** Turn the volume knob to select [SYSTEM], then press the knob.
- **4** Turn the volume knob to select [USER S.REMO], then press the knob.
- 5 Turn the volume knob to select [RESET KEY], then press the knob.
- **6** Turn the volume knob to select [YES], then press the knob. All the control keys will be reset.

Selecting **[N0]** will cancel the operation.

When [FACTORY RESET] is set to [YES] (page 7), it will also reset the learning steering remote control.

To return to the previous setting item, press  $\mathbb{Q}/\mathbb{Z}$ .

## Installation/Connection

This section is for the professional installer.

For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.

#### **▲** WARNING

- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery's negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- · To prevent short circuit:
  - Insulate unconnected wires with vinyl tape.
  - Be sure to ground this unit to the car's chassis again after installation.
  - Secure the wires with cable clamps and wrap vinyl tape around the wires that comes into contact with metal parts to protect the wires.

#### **▲** CAUTION

- Install this unit in the console of your vehicle. Do not touch the metal parts
  of this unit during and shortly after use of the unit. Metal parts such as the
  heat sink and enclosure become hot.
- Do not connect the 

  wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Mount the unit at an angle of less than 30°.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle's fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- · Keep all cables away from heat dissipate metal parts.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car's chassis, then replace the old fuse with one that has the same rating.

#### Part list for installation

(A) Mounting sleeve ( $\times 1$ )



(C) Wiring harness ( $\times 1$ )



(E) Round head screws ( $\times$ 6) ( $M5 \times 8 \text{ mm}$ )



(B) Trim plate ( $\times 1$ )



(D) Extraction key ( $\times$ 2)



(F) Flat head screws ( $\times$ 6) (M5  $\times$  8 mm)



## **Basic procedure**

- 2 Install the DAB antenna.

See "Installing the DAB antenna" on page 36.

- **3** Connect the wires properly. See "Wiring connection" on page 35.
- 4 Install the unit to your car.
  See the following "Installing the unit (in-dash mounting)".
- **5** Connect the ⊖ terminal of the car battery.
- **6** Press  $\bigcirc$  SRC to turn on the power.
- 7 Reset the unit. (Page 4)

## Installing the unit (in-dash mounting)

Do the required wiring. (Page 35)

Bend the appropriate tabs to hold the mounting sleeve firmly in place.

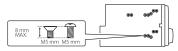
Dashboard of your car

(A)

(B)

### Installing the unit (without mounting sleeve)

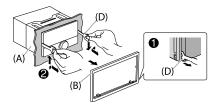
- Remove the mounting sleeve and trim plate from the unit before installing.
- 2 Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with screws (supplied).



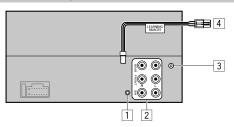
▲ Use only the specified screws. Using wrong screws might damage the unit.

## Removing the unit

- 1 Fit the catch pin on the extraction keys into the holes on both sides of the trim plate, then pull it out.
- 2 Insert the extraction keys deeply into the slots on each side, then follow the arrows as shown on the illustration.



## **Connect external components**



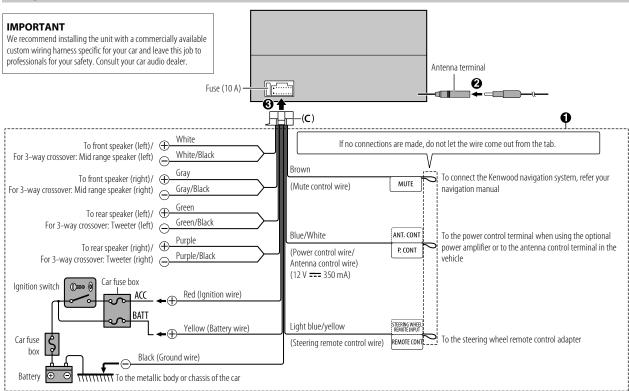
No	Part
1	Microphone input jack (Page 18)
2	Output terminals (See the following "Connect external amplifiers via output terminals".)
3	DAB antenna jack (Page 7, 38)
4	Learning steering remote input terminal (Page 31)

## Connect external amplifiers via output terminals

When connecting an external amplifier to the output terminals of this unit, securely connect the amplifier ground wire to the car chassis to prevent damage to the unit.

Output terminals	2-way crossover	3-way crossover
REAR:	Rear output	Tweeter output
FRONT:	Front output	Mid Range output
SW:	Subwoofer output	Woofer output

### Wiring connection



## Installing the DAB antenna

Connect the supplied DAB antenna to the DAB antenna jack. (Page 34)

#### **A** CAUTION

- The film antenna (G) is exclusively for use inside the vehicle.
- Do not install at the following locations:
- where it may block the driver's view.
- where it may obstruct the operation of safety devices such as air bags.
- on movable glass surfaces such as the rear hatch.
- at side of vehicle (e.g. door, front guarter window).
- on rear window.
- Signal strength will weaken when installed at the following locations:
  - on IR reflecting glass or locations covered with mirror type glass film.
  - where it overlaps with genuine radio antenna (pattern).
  - where it overlaps with window heating wires.
  - on glass that blocks radio signals (e.g., IR reflecting glass, thermal insulation glass).
- · Poor reception may occur:
  - due to noise when windscreen wiper, air conditioner, or motor is turned
- depending on the direction of the broadcast station with respect to the vehicle (antenna).
- Thoroughly wipe oil and dirt from the pasting surface with the supplied cleaner (J).
- · Do not bend or damage the film antenna (G).
- It may not be possible to install on certain vehicles.
- Check the cable routing of the film antenna (G) and amplifier unit (H) before pasting.
- Do not apply any glass cleaner after pasting the film antenna (G).

#### Part list for installation

(G) Film antenna (×1)

(H) Amplifier unit (cable with booster, 3.5 m) ( $\times$ 1)

(I) Cable clamper  $(\times 3)$ 







(J) Cleaner ( $\times 1$ )

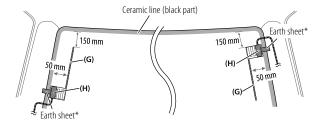


## Determine the antenna installation position

- The direction of the film antenna (G) changes depending on whether the film antenna (G) is installed on the right side or left side.
- Be sure to check the installation location of film antenna (G) before installing. Film antenna cannot be re-pasted.
- Separate from other antennas by at least 100 mm.
- Do not paste the amplifier unit (H) on the ceramic line (black part) around the front glass. Because there is not enough adhesion.

Installing the antenna on the left side

Installing the antenna on the right side



\* Paste the earth sheet of the amplifier unit (H) on the metal part of the front pillar.

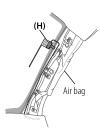
#### **A** CAUTION

When installing the antenna cable inside the front pillar with the air bag installed

 The front pillar cover is secured with a special clip which may need to be replaced when it is removed. Contact your vehicle dealer for details on removing the front pillar cover and availability of replacement parts.

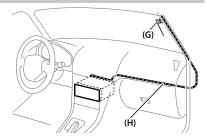


 Install the amplifier unit (H) above the air bag so that it does not obstruct the operation of the air bag.



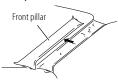
## **Installation overview**

The antenna should be installed on the passenger side for safety.



#### Antenna installation

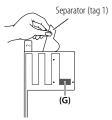
1 Remove the front pillar cover of your car.



2 Clean the windscreen with the supplied cleaner (J).



- Wait until the glass surface is completely dry before proceeding.
- Warm the surface of the windscreen with defroster if it is cold (during winter).
- 3 Remove the separator (tag 1) of film antenna (G) horizontally and paste the antenna on the windscreen.

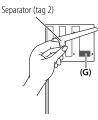


Do not touch the pasting surface (adhesive side) of the film antenna (G).

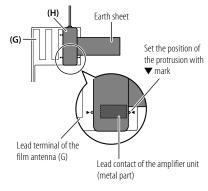
4 Rub the film antenna gently onto the windscreen in the direction of the arrow shown to allow it to stick firmly.



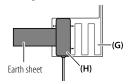
**5** Remove the separator (tag 2) of film antenna (G) vertically.



- 6 Set the position of the protrusion of the amplifier unit (H) with the ▼ mark on the film antenna (G) and paste. Do not touch the lead terminal or the pasting surface (adhesive side) of the amplifier unit (H).
  - · When installing the antenna on the right side



· When installing the antenna on the left side



7 Remove the film covering the earth sheet and paste the earth sheet on the metal part of the vehicle.

Provide sufficient leeway for the earth sheet so that it does not interfere with the interior parts (front pillar cover). Also take care that the interior parts do not interfere with the amplifier unit (H).



- 8 Wire the antenna cables.
  - Use cable clamper (I) to secure the antenna to the pillar at several positions.
- 9 Attach the front pillar cover back to its original position. Be sure not to damage the earth sheet and amplifier unit (H) when covering.
- 10 Connect the amplifier unit (H) to the DAB antenna jack on the rear of the unit.

#### Note:

Make sure [DAB ANT POWER] is set to [ON] on the [FUNCTION] menu in standby mode. (Page 6) [ON] is selected initially.

## References

#### Maintenance

### Cleaning the unit

Wipe off dirt on the faceplate with a dry silicone or soft cloth.

#### **Handling discs**

- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- · Do not use any accessories for the disc.
- · Clean from the center of the disc and move outward.
- Clean the disc with a dry silicone or soft cloth. Do not use any solvents.
- When removing a disc from this unit, pull it out horizontally.
- · Remove burrs from the center hole and disc edge before inserting a disc.

#### More information

For: - Latest firmware updates and latest compatible item list

- KENWOOD original application
- Any other latest information

Visit < www.kenwood.com/cs/ce/>.

#### General

• This unit can only play the following CDs:







 For detailed information and notes about the playable audio files, visit <www.kenwood.com/cs/ce/audiofile/>.

### Playable files

· Playable audio file:

For disc: MP3 (.mp3), WMA (.wma), AAC (.aac)

For USB mass storage class device:

MP3 (.mp3), WMA (.wma), AAC (.aac), AAC (.m4a), WAV (.wav), FLAC (.flac)

- · Playable disc media: CD-R/CD-RW/CD-ROM
- · Playable disc file format: ISO 9660 Level 1/2, Joliet, Long file name
- Playable USB device file system: FAT12, FAT32
   Even when audio files comply with the standards listed above, playback may be impossible depending on the types or conditions of media or devices.

The AAC (.m4a) file in a CD encoded by iTunes cannot be played on this unit.

#### **Unplayable discs**

- · Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- · Recordable/ReWritable discs that have not been finalized.
- 8 cm CD. Attempting to insert using an adapter may cause malfunction.

#### **About USB devices**

- · You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1.5 A.

#### About iPod/iPhone

- · Made for
  - iPod touch (6th generation)
- iPhone 5S, 6, 6 Plus, 6S, 6S Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS MAX, XR (iOS 12.1 or later)
- It is not possible to browse video files on the "Videos" menu in [MODE OFF].
- The song order displayed on the selection menu of this unit may differ from that of the iPod/ iPhone.
- You cannot operate iPod if "KENWOOD" or "

  "
  " is displayed on iPod.
- Depending on the version of the operating system of the iPod/iPhone, some functions may not
  operate on this unit.

#### References

#### **About Spotify**

- · Spotify application supports:
  - iPhone 5S, 6, 6 Plus, 6S, 6S Plus, SE, 7, 7 Plus, 8, 8 Plus, X, XS, XS MAX, XR (iOS 12.1 or later)
  - iPod touch (6th generation)
  - Android OS 4.0.3 or above
- Spotify is a third party service, therefore the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- · Some functions of Spotify cannot be operated from this unit.
- For issues using the application, please contact Spotify at <www.spotify.com>.

#### About AMAZON ALEXA

 Alexa is a third party service, therefore the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.

## Change the display information

Each time you press DISP, the display information changes.

 If the information is unavailable or not recorded, "NO TEXT", "NO INFO", or other information (eq. station name) appears or display will be blank.



Source name	Display information: Main display (supplementary)
STANDBY	Source name (Date)
DIGITAL AUDIO	Service label (Ensemble label) → Service label (Date) → Dynamic label (Date → Title (Artist) → Title (Date) → Next program (EPG) (Date) → Signal level (Date) → back to the beginning
RADIO	Frequency (Date)
	For FM Radio Data System stations only:  Station name/Program type (Date) → Radio text (Date) → Radio text+  (Radio text+) → Song title (Artist) → Song title (Date) → Frequency (Date)  → back to the beginning
CD/USB	For CD-DA: Track title (Artist) → Track title (Disc title) → Track title (Date) → Playing tim (Date) → back to the beginning
	For MP3/WMA/AAC/WAV/FLAC files: Song title (Artist) → Song title (Album title) → Song title (Date) → File name (Folder name) → File name (Date) → Playing time (Date) → back to the beginning
iPod USB/iPod BT	When [MODE OFF] is selected (page 13):  Song title (Artist) → Song title (Album title) → Song title (Date) → Playing time (Date) → back to the beginning
SPOTIFY/ SPOTIFY BT	Context title (Date) $\Rightarrow$ Song title (Artist) $\Rightarrow$ Song title (Album title) $\Rightarrow$ Song title (Date) $\Rightarrow$ Playing Time (Date) $\Rightarrow$ back to the beginning
BT AUDIO/ ALEXA	Song title (Artist) → Song title (Album title) → Song title (Date) → Playing time (Date) → back to the beginning
AUX	Source name (Date)

# Troubleshooting

Sym	Symptom		Remedy
	Sound cannot be heard.		Adjust the volume to the optimum level. Check the cords and connections.
	"MISWIRING CHECK WIRING THEN PWR ON" appears.		Turn the power off, then check to be sure the terminals of the speaker wires are insulated properly. Turn the power on again.
_	"PROTECTING SEND SERVICE" appears.		Send the unit to the nearest service center.
General	Source cannot be selected.		Check the [SOURCE SELECT] setting. (Page 6)
G	The unit does not work at all.		Reset the unit. (Page 4)
	Correct characters are not displayed.		This unit can only display uppercase letters, numbers, and a limited number of symbols.
	"ERROR"/"FAILED"		Your steering remote controller is not compatible, learning may not be completed. Consult your car audio dealer for details.
	DAB reception is poor.		Make sure <b>[ON]</b> is selected for <b>[DAB ANT POWER]</b> . (Page 6)
Digital Radio	"DAB ANT ERR"		Check the DAB antenna. If a passive antenna (without a booster) is used, set [DAB ANT POWER] to [OFF]. (Page 6)
	"RELATED SERV FOUND"		Press the volume knob to activate Soft-Link. (Page 9) Press <b>Q</b> / <b>⇒</b> to cancel.
Analog Radio	Radio reception is poor.     Static noise while listening to the radio.		Connect the antenna firmly.

Symptom		Remedy		
,	Disc cannot be ejected.	Press and hold ▲ to forcibly eject the disc. Be careful not to drop the disc when it is ejected. If this does not solve the problem, reset the unit (page 4).		
	Noise is generated.	Skip to another track or change the disc.		
	"PLEASE EJECT" appears.	Reset the unit (page 4). If this does not solve the problem, consult your nearest service center.		
	Playback order is not as intended.	The playback order is determined by the order in which files were recorded (disc) or the file name (USB).		
	Elapsed playing time is not correct.	This depends on the recording process earlier (disc/USB).		
D/USB/IPod	"READING" keeps flashing.	Do not use too many hierarchical levels and folders. Reload the disc or reattach the device (USB/iPod/iPhone).		
	"UNSUPPORTED DEVICE" appears.	Check whether the connected USB device is compatible with this unit and ensure the file systems are in supported formats. (Page 39)     Reattach the USB device.		
	"UNRESPONSIVE DEVICE" appears.	Make sure the USB device is not malfunction and reattach the USB device.		
	"USB HUB IS NOT SUPPORTED" appears.	This unit cannot support a USB device connected via a USB hub.		
	The source does not change to "USB" when you connect a USB device while listening to another source.  "USB ERROR" appears.	The USB port is drawing more power than the design limit. Turn the power off and unplug the USB device. Then, turn on the power and reattach the USB device. If this does not solve the problem, turn the power off and on (or reset the unit) before replacing with another USB device.		
	The iPod/iPhone does not turn on or does not work.	Check the connection between this unit and iPod/iPhone.     Disconnect and reset the iPod/iPhone using hard reset.		

## Troubleshooting

Symptom		Remedy	
	"LOADING" appears when you enter search mode by pressing Q / .	This unit is still preparing the iPod/iPhone music list. It may take some time to load, try again later.	
	"NO DISC"	Insert a playable disc into the loading slot.	
	"TOC ERROR"	Make sure the disc is clean and inserted properly.	
Б	"NA FILE"	Make sure the media (disc/USB) contain supported audio files. (Page 39)	
B/iPc	"COPY PRO"	A copy-protected file is played (disc/USB).	
CD/USB/iPod	"NO DEVICE"	Connect a device (USB/iPod/iPhone), and change the source to USB or iPod USB again.	
	"NO MUSIC"	Connect a device (USB/iPod/iPhone) that contains playable audio files.	
	"iPod ERROR"	Reconnect the iPod.     Reset the iPod.	
	"MEMORY FULL"	You have reached the maximum storage limit of your iPod/iPhone.	
Spotify	"DISCONNECTED"	USB is disconnected from the head unit. Please make sure the device is connected properly through USB.	
	"CONNECTING"	Connected via USB input terminal: The device is connecting to the head unit. Please wait.     Connected via Bluetooth: The Bluetooth is disconnected. Please check Bluetooth connection and make sure both the device and unit are paired and connected.	
	"CHECK APP"	The Spotify application is not connected properly or user is not login. End the Spotify application and restart. Then, log in to your Spotify account.	

Sym	ıptom	Remedy
	No Bluetooth device is detected.	<ul><li>Search from the Bluetooth device again.</li><li>Reset the unit. (Page 4)</li></ul>
	Bluetooth pairing cannot be made.	Make sure you have entered the same PIN code to both the unit and Bluetooth device.     Delete pairing information from both the unit and the Bluetooth device, then perform pairing again. (Page 18)
	Echo or noise is heard during a phone conversation.	<ul> <li>Adjust the microphone unit's position. (Page 18)</li> <li>Check the [ECHO CANCEL] setting. (Page 20)</li> </ul>
Bluetooth®	Phone sound quality is poor.	Reduce the distance between the unit and the Bluetooth device. Move the car to a place where you can get a better signal reception.
	Voice calling method is not successful.	Use voice calling method in a more quiet environment. Reduce the distance from the microphone when you speak the name. Make sure the same voice as the registered voice tag is used.
	Sound is being interrupted or skipped during playback of a Bluetooth audio player.	Reduce the distance between the unit and the Bluetooth audio player.  Turn off, then turn on the unit and try to connect again. Other Bluetooth devices might be trying to connect to the unit.
	The connected Bluetooth audio player cannot be controlled.	Check whether the connected Bluetooth audio player supports Audio/Video Remote Control Profile (AVRCP). (Refer to the instructions of your audio player.)     Disconnect and connect the Bluetooth player again.
	"NOT SUPPORT"	The connected phone does not support Voice Recognition feature or phonebook transfer.

## Troubleshooting

Syn	nptom	Remedy
	"NO ENTRY"/"NO PAIR"	There is no registered device connected/found via Bluetooth.
	"ERROR"	Try the operation again. If "ERROR" appears again, check if the device supports the function you have tried.
	"NO INFO"/"NO DATA"	Bluetooth device cannot get the contact information.
Bluetooth®	"HF ERROR XX"/ "BT ERROR"	Reset the unit and try the operation again. If this does not solve the problem, consult your nearest service center.
Bl	"SWITCHING NG"	The connected phones might not support phone switching feature.
	The Bluetooth connection between the Bluetooth device and the unit is unstable.	Delete the unused registered Bluetooth device from the unit. (Page 22)
	No response from Alexa after the voice input.	Amazon cloud was unable to analyze the voice input.
AMAZON ALEXA	Wrong response from Alexa.	Alexa misunderstood what was said or did not catch the entire request or sentence spoken. Please try again. (Page 24)
	"DISCONNECTED"	Be sure to connect your smartphone to the unit via Bluetooth. (Page 18)
	Not able to connect or reconnect to Alexa mobile application.	Be sure the audio device is connected via Bluetooth.     Select the audio device from [AUDIO SELECT] in     [BT MODE]. (Page 22)     Perform the one-time setup process again. See "Setup for the first time" on page 24.     Turn off, then turn on the unit and try to connect again.     For iOS device, make sure ALEXA source or iPod BT source is selected.

# **Specifications**

	DAB	Frequency Range	Band III: 174.928 MHz —— 239.200 MHz
ė		Sensitivity	−100 dBm
Digital radio		Signal-to-Noise Ratio	90 dB
Digit		Antenna Connector Type	SMB
		Antenna Output Voltage	DC 12 V
		Antenna Maximum Current	< 100 mA
	FM	Frequency Range	87.5 MHz — 108.0 MHz (50 kHz step)
		Usable Sensitivity (S/N = 30 dB)	6.2 dBf (0.56 μV/75 Ω)
		, ,	
		Quieting Sensitivity	15.2 dBf
g j		(DIN S/N = 46 dB)	(1.58 μV/75 Ω)
Analog radio		Frequency Response (±3 dB)	30 Hz — 15 kHz
Anal		Signal-to-Noise Ratio (MONO)	68.0 dB
		Stereo Separation (1 kHz)	40 dB
	MW	Frequency Range	531 kHz — 1 701 kHz (9 kHz step)
	(AM)	Usable Sensitivity (S/N = 20 dB)	29.1 dBμ (28.5 μV)

## Specifications

	Laser Diode	GaAlAs
	Digital Filter (D/A)	8 times over sampling
	Spindle Speed	500 rpm — 200 rpm (CLV)
	Wow & Flutter	Below measurable limit
	Frequency Response (±1 dB)	20 Hz — 20 kHz
CD player	Total Harmonic Distortion (1 kHz)	0.01 %
C) p	Signal-to-Noise Ratio (1 kHz)	96 dB
	Dynamic Range	91 dB
	Channel Separation	84 dB
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
	WMA Decode	Compliant with Windows Media Audio
	AAC Decode	AAC-LC ".aac" files
	USB Standard	USB 1.1, USB 2.0 (High speed)
	File System	FAT12/16/32
	Maximum Supply Current	DC 5 V === 1.5 A
USB	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
SI	WMA Decode	Compliant with Windows Media Audio
	AAC Decode	AAC-LC ".aac", ".m4a" files
	WAV Decode	Linear-PCM
	FLAC Decode	FLAC file (Up to 96 kHz/24 bit)

Auxiliary	Frequency Response (±3 dB)	20 Hz — 20 kHz
	Input Maximum Voltage	1 000 mV
¥	Input Impedance	30 kΩ
	Version	Bluetooth 4.2
	Frequency Range	2.402 GHz — 2.480 GHz
	RF Output Power (E.I.R.P.)	+4 dBm (MAX), Power Class 2
Bluetooth	Maximum Communication Range	Line of sight approx. 10 m (32.8 ft)
Bluet	Profile	HFP 1.7.1 (Hands-Free Profile) A2DP (Advanced Audio Distribution Profile) AVRCP 1.6.1 (Audio/Video Remote Control Profile) PBAP (Phonebook Access Profile) SPP (Serial Port Profile)
	Maximum Output Power	50 W × 4
Audio	Maximum Output Power	50 W × 4
	Full Bandwidth Power (at less than 1 % THD)	22 W × 4
	Speaker Impedance	4 Ω 8 Ω

## Specifications

	Audio	Tone Action	Band 1: 62.5 Hz ±9 dB Band 2: 100 Hz ±9 dB Band 3: 160 Hz ±9 dB Band 4: 250 Hz ±9 dB Band 5: 400 Hz ±9 dB Band 6: 630 Hz ±9 dB Band 7: 1 kHz ±9 dB Band 8: 1.6 kHz ±9 dB Band 9: 2.5 kHz ±9 dB Band 10: 4 kHz ±9 dB Band 11: 6.3 kHz ±9 dB Band 12: 10 kHz ±9 dB Band 12: 10 kHz ±9 dB Band 13: 16 kHz ±9 dB
		Preout Level/Load	3 500 mV/10 kΩ
		Preout Impedance	≤ 600 Ω
ı	General	Operating Voltage	12 V DC car battery
ı		Installation Size (W $\times$ H $\times$ D)	182 mm × 111 mm × 156 mm
		Net Weight (includes Trimplate and Mounting Sleeve)	1.6 kg

Subject to change without notice.



#### The marking of products using lasers

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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