

# Pioneer

## DMH-T450EX

RDS AV RECEIVER

English

## Operation Manual



### **Important (Serial number)**

The serial number is located on the bottom of this unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.

# Contents

Thank you for buying this Pioneer product.  
Please read through these instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this document in a safe place for future reference.

## Important

The screen shown in the examples may differ from actual screens, which may be changed without notice for performance and function improvements.

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# Precaution

## Important safety information

### **WARNING**

- Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.
- Do not allow this product to come into contact with liquids. Electrical shock could result. Also, damage to the product, smoke, and overheating could result from contact with liquids.
- If liquid or foreign matter should get inside this product, park your vehicle in a safe place, turn the ignition switch off (ACC OFF) immediately and consult your dealer or the nearest authorized Pioneer Service Station. Do not use this product in this condition because doing so may result in a fire, electric shock, or other failure.
- If you notice smoke, a strange noise or odor from this product, or any other abnormal signs on the LCD screen, turn off the power immediately and consult your dealer or the nearest authorized Pioneer Service Station. Using this product in this condition may result in permanent damage to the system.
- Do not disassemble or modify this product, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized Pioneer Service Station for internal inspection, adjustments or repairs.
- Do not ingest the battery, Chemical Burn Hazard.  
(The remote control supplied or sold separately 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.

Before using this product, be sure to read and fully understand the following safety information:

- Do not operate this product, any applications, or the rear view camera option (if purchased) if doing so will divert your attention in any way from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating this product, pull over, park your vehicle in a safe location and apply the parking brake before making the necessary adjustments.
- Never set the volume of this product so high that you cannot hear outside traffic and emergency vehicles.
- To promote safety, certain functions are disabled unless the vehicle is stopped and the parking brake is applied.
- Keep this manual handy as a reference for operating procedures and safety information.

- Do not install this product where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags or hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- Please remember to fasten your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- Never use headphones while driving.
- Rear visibility systems (backup cameras) are required in certain new vehicles sold in the U.S. and Canada. U.S. regulations began according to a two year phase-in on May 1, 2016, and both the U.S. and Canada require that all such vehicles manufactured on or after May 1, 2018 have rear visibility systems. **Owners of vehicles equipped with compliant rear visibility systems should not install or use this product in a way that alters or disables that system's compliance with applicable regulations.** If you are unsure whether your vehicle has a rear visibility system subject to the U.S. or Canadian regulations, please contact the vehicle manufacturer or dealer.

If your vehicle has a compliant backup camera that displays the backup view through the factory receiver, do not use the Pioneer receiver unless it is connected to and displays the same view as the factory backup camera. Connection to the factory backup camera will require an adaptor, sold separately. Not all vehicles may be able to connect. Please check with a qualified professional installer for installation options specific to your vehicle.

## Parking brake interlock

Certain functions (such as viewing of video image and certain touch panel key operations) offered by this product could be dangerous (possibly resulting in serious injury or death) and/or unlawful if used while driving. To prevent such functions from being used while the vehicle is in motion, there is an interlock system that senses when the parking brake is set and when the vehicle is moving. If you attempt to use the functions described above while driving, they will become disabled until you stop the vehicle in a safe place, and (1) apply the parking brake, (2) release the parking brake, and then (3) apply the parking brake again. Please keep the brake pedal pushed down before releasing the parking brake.

### To ensure safe driving



#### WARNING

- **LIGHT GREEN LEAD AT POWER CONNECTOR IS DESIGNED TO DETECT PARKED STATUS AND MUST BE CONNECTED TO THE POWER SUPPLY SIDE OF THE PARKING BRAKE SWITCH. IMPROPER CONNECTION OR USE OF THIS LEAD MAY VIOLATE APPLICABLE LAW AND MAY RESULT IN SERIOUS INJURY OR DAMAGE.**

- Do not take any steps to tamper with or disable the parking brake interlock system which is in place for your protection. Tampering with or disabling the parking brake interlock system could result in serious injury or death.
- To avoid the risk of damage and injury and the potential violation of applicable laws, this product is not for use with a video image that is visible to the driver.
- In some countries the viewing of video image on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.

If you attempt to watch video image while driving, the warning **“Viewing of front seat video source while driving is strictly prohibited.”** will appear on the screen. To watch video image on this display, stop the vehicle in a safe place and apply the parking brake. Please keep the brake pedal pushed down before releasing the parking brake.

## When using a display connected to the video output terminal

The video output terminal is for connection of a display to enable passengers in the rear seats to watch video images.



### WARNING

NEVER install the rear display in a location that enables the driver to watch video images while driving.

## To avoid battery exhaustion

Be sure to run the vehicle engine while using this product. Using this product without running the engine can drain the battery.



### WARNING

Do not install this product in a vehicle that does not have an ACC wire or circuitry available.

## Rear view camera

With an optional rear view camera, you are able to use this product as an aid to keep an eye on trailers, or backing into a tight parking spot.



### WARNING

- SCREEN IMAGE MAY APPEAR REVERSED.
- USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.



### CAUTION

The rear view mode is to use this product as an aid to keep an eye on the trailers, or while backing up. Do not use this function for entertainment purposes.

## Handling the USB connector



### CAUTION

- To prevent data loss and damage to the storage device, never remove it from this product while data is being transferred.
- Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, iPhone, smartphone, or other devices while using this product.
- It may not be recognized properly by this product if a USB device that had been incorrectly disconnected from the computer is connected.

## Failure to operate

### After-sales service for Pioneer products

Please contact the dealer or distributor from which you purchased the product for after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below.

Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.

—USA&CANADA

Pioneer Electronics (USA) Inc.

CUSTOMER SUPPORT DIVISION

P.O. Box 1760 Long Beach, CA 90801-1760

800-421-1404

For warranty information, please see the Limited Warranty sheet included with your product.

## Visit our website

Visit us at the following site:

<https://www.pioneerelectronics.com/PUSA/>

<https://www.pioneerelectronics.ca/POCEN/>

- 1 Register your product.
- 2 Receive updates on the latest products and technologies.
- 3 Download owner's manuals, order product catalogs, research new products, and much more.
- 4 Receive notices of software upgrades and software updates.

## Protecting the LCD panel and screen

- Do not expose the LCD screen to direct sunlight when this product is not used. This may result in LCD screen malfunction due to the resulting high temperatures.

- When using a cellular phone, keep the antenna of the cellular phone away from the LCD screen to prevent disruption of the video in the form of spots, colored stripes, etc.
- To protect the LCD screen from damage, be sure to touch the touch panel keys only with your finger and do so gently.



## Notes on internal memory

- The information will be erased by disconnecting the yellow lead from the battery (or removing the battery itself).
- Some of the settings and recorded contents will not be reset.

## About this manual

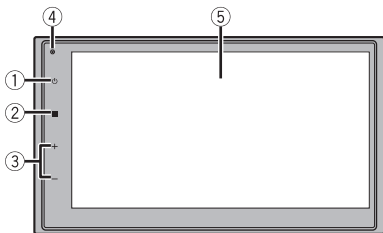
- This manual uses diagrams of actual screens to describe operations. However, the screens on some units may not match those shown in this manual depending on the model used.
- When an iPhone is connected to the unit, the source name on the unit appears as [iPod]. Please note that this unit only supports iPhone regardless of the source name. For details of iPhone compatibility, refer to Compatible iPhone models (page 38).



## Meanings of symbols used in this manual

	This indicates to touch the appropriate soft key on the touch screen.
	This indicates to touch and hold the appropriate soft key on the touch screen.

# Parts and controls

## Main unit



①		<p>Press to turn off the display information. To turn on the display information, press again. Press and hold to power off. To power back on, press again.</p> <p><b>TIP</b> If you power the unit off, you can turn off almost all functions. The unit turns on by operating the following functions:</p> <ul style="list-style-type: none"> <li>• A rear view camera image is input when the vehicle is in reverse.</li> <li>• The ignition switch is turned off (ACC OFF), then turned on (ACC ON).</li> </ul> <p><b>NOTE</b> If you display the image from the back camera while the power is off, the image may be displayed on the rear monitor instead.</p>
②		<p>Press to display the top menu screen. Press and hold to mute or unmute.</p>
③	VOL (+/-)	
④	RESET	Press to reset the microprocessor (page 9).
⑤	LCD screen	

## Remote control

The remote control is sold separately. For details concerning operations, see the remote control manual.



# Basic operation

## Resetting the microprocessor

### CAUTION

- Pressing the RESET button resets settings and recorded contents to the factory settings.
  - Do not perform this operation when a device is connected to this product.
  - Some of the settings and recorded contents will not be reset.
- The microprocessor must be reset under the following conditions:
  - Prior to using this product for the first time after installation.
  - If this product fails to operate properly.
  - If there appears to be problems with the operation of the system.

- 1 Turn the ignition switch OFF.**
- 2 Press RESET with a pen tip or other pointed tools.**  
Settings and recorded contents are reset to the factory settings.



## Using the touch panel

You can operate this product by touching the keys on the screen directly with your fingers.

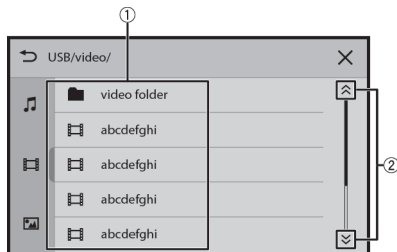
### NOTE

To protect the LCD screen from damage, be sure to touch the screen only with your finger gently.

### Common touch panel keys

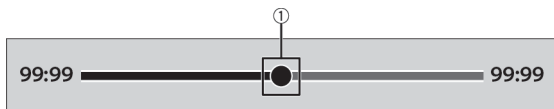
- : Returns to the previous screen.
- : Close the screen.

## Operating list screens



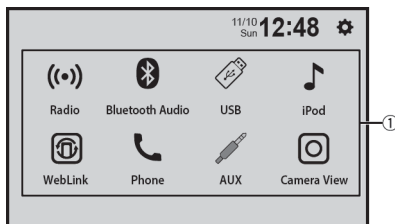
- |   |   |
|---|---|
| ① | Touching an item on the list allows you to narrow down the options and proceed to the next operation. |
| ② | Touch to view any hidden items.   |


## Operating the time bar



- |   |   |
|---|---|
| ① | You can change the playback point by touching in the bar. |
|---|---|


# Top menu screen



①	<b>Source icons</b>
	<b>Settings (page 28)</b>

# Bluetooth®

## Bluetooth connection

- 1 Turn on the Bluetooth function on the device.
- 2 Press .
- 3 Touch [Phone] or [Bluetooth Audio].  
The unit name is shown in the display.
- 4 Select the unit name shown in the mobile device display.
- 5 Perform the pairing operation by the mobile device and this unit.  
After the device is successfully registered, a Bluetooth connection is established by the system.

### TIP

To disconnect the connection, touch the connected device name on the top of the phone number input screen (page 13).

### NOTE

You need to disconnect the Bluetooth connection with connected mobile device to connect another mobile device.

## Hands-free phoning


To use this function you need to connect your cellular phone to this product via Bluetooth in advance (page 12).












### CAUTION

For your safety, avoid talking on the phone as much as possible while driving.

## Making a phone call



- 1 Press .
- 2 Touch [Phone].  
The phone menu screen appears.
- 3 Touch one of the call icons on the phone menu screen.

	<b>Synchronizes the contacts and call history on your phone manually.</b>
	<b>Using phone book</b> Select a contact from the phone book. Touch the contact on the list.  <b>TIP</b> You can use initial search by touching the character at the right side of the phone book screen.
	<b>Using call history</b> Make a phone call by touching the one of the icon from the received call  , dialed call  , or missed call  .
	<b>Direct phone number input</b> Touch the number keys to enter the phone number then touch  to make a call.  <b>TIP</b> You can redial to the last dialed number by touching  without entering the number.

### ► To end the call

- 1 Touch .

### Receiving a phone call


- 1 Touch  to answer the call.  
Touch  to end the call.

### Voice recognition function (for iPhone)

By connecting your iPhone to this product, you can use the voice recognition function on this product.


### Switching the audio output

You can switch the audio output between this unit and the connected mobile device.

- 1 Touch  when calling.

The audio output switches each time by touching the icon.

#### TIP

Touch  to mute or unmute the connected microphone.

### ► General notes

- Connection to all cellular phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this product and your cellular phone must be 10 meters or less when sending and receiving voice and data via Bluetooth technology.
- With some cellular phones, the ring sound may not be output from the speakers.
- If private mode is selected on the cellular phone, hands-free phoning may be disabled.

### ► Registration and connection

- Cellular phone operations vary depending on the type of cellular phone. Refer to the instruction manual that came with your cellular phone for detailed instructions.
- When phone book transfer does not work, disconnect your phone and then perform pairing again from your phone to this product.

### ► Making and receiving calls

- You may hear a noise in the following situations:
  - When you answer the phone using the button on the phone.
  - When the person on the other end of the line hangs up the phone.
- If the person on the other end of the line cannot hear the conversation due to an echo, decrease the volume level for hands-free phoning.
- With some cellular phones, even after you press the accept button on the cellular phone when a call comes in, hands-free phoning may not be performed.
- The registered name in the phone book is displayed if the phonebook is transferred to this unit.

### ► The received call and dialed number histories

- You cannot make a call to the entry of an unknown user (no phone number) in the received call history.

### ► Phone book transfers

- If there are more than 1 000 phone book entries on your cellular phone, not all entries may download completely.
- Depending on the phone, this product may not display the phone book correctly.
- If the phone book in the phone contains image data, the phone book may not be transferred correctly.
- Depending on the cellular phone, phone book transfer may not be available.

## Bluetooth audio

Before using the Bluetooth audio player, register and connect the device to this product (page 12).

**NOTES**






- Depending on the Bluetooth audio player connected to this product, the available operations with this product may be limited to the following two levels:
  - A2DP (Advanced Audio Distribution Profile): Only playing back songs on your audio player is possible.
  - A2DP and AVRCP (Audio/Video Remote Control Profile): Playing back, pausing, selecting songs, etc., are possible.
- Depending on the Bluetooth device connected to this product, the available operations with this product may be limited or differ from the descriptions in this manual.
- While you are listening to songs on your Bluetooth device, refrain from operating the phone function as much as possible. If you try operating, the signal may cause noise for song playback.
- When you are talking on the Bluetooth device connected to this product via Bluetooth, it may pause playback.

**1** Press .

**2** Touch [Bluetooth Audio].

The Bluetooth audio playback screen appears.

**Basic operation**

	<b>Switches between playback and pause.</b>
	<b>Skips files forward or backward.</b>
	<b>Performs fast forward or fast reverse.</b>
	<b>Sets a repeat play range.</b>
	<b>Plays files in random order.</b>

# AV source

## Supported AV source


You can play or use the following sources with this product.

- Radio
- USB

The following sources can be played back or used by connecting an auxiliary device.

- iPhone
- Bluetooth audio
- AUX

## Selecting a source

- 1 Press .
- 2 Touch the source icon.
















# Radio

## Starting procedure

- 1 Press .
- 2 Touch [Radio].  
The Radio screen appears.

## Basic operation

	 <b>Recalls the preset channel stored to a key from memory.</b>
	 <b>Stores the current broadcast frequency to a key.</b>
	<b>Selects the FM1, FM2, FM3, AM1 or AM2 band.</b>
	 <b>Automatically stores the six strongest broadcast frequencies.</b>
<div><b>NOTES</b></div> <ul style="list-style-type: none"> <li>• Storing broadcast frequencies with BSM may replace those you have already saved.</li> <li>• Previously stored broadcast frequencies may remain stored if the number of frequencies stored has not reached the limit.</li> </ul>	
	 <b>Manual tuning</b>
	 <b>Seek tuning</b> Skips to the nearest station from the current frequency.
	<b>Tunes into only radio stations with sufficiently strong signals.</b>
<div><b>NOTE</b></div> Only available with the stations with the strongest signals when [Local] is set to on.	
	<b>Switches to display or hide the radio station name.</b>

### NOTE

Some functions are available only when you receive the FM band.

# Compressed files

## Plugging/unplugging a USB storage device

You can play compressed audio, compressed video, or still image files stored in an external storage device.

### Plugging a USB storage device

- 1 Pull out the plug from the USB port of the USB cable.
- 2 Plug a USB storage device into the USB cable.

#### NOTES

- This product may not achieve optimum performance with some USB storage devices.
- Connection via a USB hub is not possible.
- A USB cable is required for connection.

### Unplugging a USB storage device

- 1 Pull out the USB storage device from the USB cable.


#### NOTES

- Check that no data is being accessed before pulling out the USB storage device.
- Turn off (ACC OFF) the ignition switch before unplugging the USB storage device.

## Starting procedure

- 1 Plug the USB storage device into the USB cable.

#### TIP

You can also start this source by pressing  then touching [USB].

## Basic operation

### Audio source



Switches between playback and pause.











	<b>Skips files forward or backward.</b>
	<b>Performs fast forward or fast reverse.</b>
	<b>Sets a repeat play range for all files/the current folder/the current file.</b>
	<b>Plays files or does not play in random order.</b>
	<b>Selects a file from the list.</b> Touch a file on the list to playback.
<b>TIPS</b> <ul style="list-style-type: none"> <li>• Touching a folder on the list shows its contents. You can play a file on the list by touching it.</li> <li>• You can switch the following media file types.             <ul style="list-style-type: none"> <li>– : Compressed audio files</li> <li>– : Compressed video files</li> <li>– : Image files</li> </ul> </li> </ul>	
<b>NOTE</b> The files and folders displayed depend on the media. Some files and folders may not be displayed if there are 1 300 files or more in the media, if the files contain additional information, or if many folders are registered.	

## Video source








### CAUTION








For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the parking brake.

	<b>Switches between playback and pause.</b>
	<b>Stops playback then displays playlist.</b>
	<b>Skips files forward or backward.</b>
	<b>Performs fast forward or fast reverse.</b>

	<b>Sets a repeat play range for all files/the current folder/the current file.</b>
	<p><b>Selects a file from the list.</b> Touch a file on the list to playback.</p> <p><b>TIPS</b></p> <ul style="list-style-type: none"> <li>• Touching a folder on the list shows its contents. You can play a file on the list by touching it.</li> <li>• You can switch the following media file types.             <ul style="list-style-type: none"> <li>- : Compressed audio files</li> <li>- : Compressed video files</li> <li>- : Image files</li> </ul> </li> </ul> <p><b>NOTE</b> The files and folders displayed depend on the media. Some files and folders may not be displayed if there are 1 300 files or more in the media, if the files contain additional information, or if many folders are registered.</p>
 	<b>Displays the hidden function bar.</b>
	<b>Switches screen display mode.</b>
 	<b>Switches the audio/subtitle language. (only some files)</b>

## Still image source

 	<b>Switches between playback and pause.</b>
	<b>Stops playback then displays playlist.</b>
 	<b>Skips files forward or backward.</b>
	<b>Rotates the displayed picture 90° counterclockwise.</b>
	<b>Sets a repeat play range for all files/the current folder.</b>

	<p><b>Selects a file from the list.</b> Touch a file on the list to playback.</p> <p><b>TIPS</b></p> <ul style="list-style-type: none"> <li>• Touching a folder on the list shows its contents. You can play a file on the list by touching it.</li> <li>• You can switch the following media file types.             <ul style="list-style-type: none"> <li>– : Compressed audio files</li> <li>– : Compressed video files</li> <li>– : Image files</li> </ul> </li> </ul> <p><b>NOTE</b> The files and folders displayed depend on the media. Some files and folders may not be displayed if there are 1 300 files or more in the media, if the files contain additional information, or if many folders are registered.</p>
 	<p><b>Displays the hidden function bar.</b></p>
	<p><b>Switches screen display mode.</b></p>

# iPhone

## NOTE

iPhone may be referred to as iPod in this manual.

## Starting procedure


When connecting an iPhone to this product, the settings are automatically configured according to the device to be connected. For details of the compatibility, refer to Compatible iPhone models (page 38).

## NOTE

[iPhone USB Settings] is set to [iPod] (page 28).

- 1 Connect your iPhone via USB.**  
Playback is automatically performed.










## TIP

You can also start this source by pressing  then touching [iPod].

## NOTE

For USB connection, refer to the Installation Manual.

## Basic operation

 	<b>Switches between playback and pause.</b>
 	 <b>Skips files forward or backward.</b>
	 <b>Performs fast forward or fast reverse.</b>
	<b>Sets a repeat play range for the selected list or album/the current file.</b>
	<b>Plays songs within the selected list/album randomly.</b>

**Selects a song from the list.**

Touch the category then the title of the list to playback of the selected list.

**TIP**

You can switch the song list by selecting the character in the initial bar while the initial bar is displayed.

**NOTE**

Only 1 300 songs in the iPhone are available in the list if the iPhone has more than 1 300 songs. The number of songs available may be less than 1 300, due to the additional information included in the songs. Available songs depend on the iPhone.

**NOTE**

Depending on the generation or version of the iPhone, some functions may not be available.

# WebLink™

You can operate WebLink compatible applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

## NOTES

- The supported finger gestures may vary depending on the WebLink compatible application.
- To use WebLink, you must first install the WebLink Host app on the iPhone or smartphone. For details about the WebLink Host app, visit the following site: <https://www.abaltatech.com/weblink/>
- Be sure to read Using app-based connected content (page 39) before you perform this operation.
- Copyright protected files such as DRM cannot be played.

## WARNING

Certain uses of the iPhone or smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

## Using WebLink

### Important

- Pioneer is not responsible for content or functions accessed via WebLink, which are the responsibility of the application and content providers.
- Availability of non-Pioneer content and services, including apps and connectivity, may change or discontinue without notice.
- When using WebLink with the Pioneer product, available content and functions will be limited while driving.
- WebLink allows access to applications other than those listed, subject to limitations while driving.

## Starting procedure

### For iPhone users

#### System requirement

iOS 13.4 or higher


#### NOTE

[iPhone USB Settings] is set to [WebLink] (page 28).

- 1 **Unlock your iPhone and connect it to this product via USB.**  
WebLink is automatically launched.



#### TIP

You can also start this source by pressing  then touching [WebLink].

#### NOTE

For USB connection, refer to the Installation Manual.

## For smartphone (Android™) users

### System requirement

Android 7.0 or higher

#### NOTE

The video playback capability depends on the connected Android device.

### 1 Unlock your smartphone and connect it to this product via USB.

WebLink is automatically launched.

#### TIP

You can also start this source by pressing  then touching [WebLink].

#### NOTES

- For USB connection, refer to the Installation Manual.
- Make sure that file transfer mode for USB connection is enabled on your smartphone if WebLink does not start automatically.

## Basic operation

Touch the desired application icon after the WebLink app is launched. The desired application is launched, and the application operation screen appears.



**Displays the main menu of the WebLink source screen.**

#### TIPS

- If you connect your device to this product while a WebLink compatible application is already running, the application operation screen will appear on this product.
- Check the Bluetooth connection between the mobile device and this unit if there is no sound output from this unit (page 12).

# AUX

You can display the video image output by the device connected to AUX input.



## CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the parking brake.

## NOTE

A Mini-jack AV cable (sold separately) is required for connection. For details, refer to the Installation Manual.

## Starting procedure

- 1 Press .
- 2 Touch [AUX].  
The AUX screen appears.

# Camera View

You can display the video image output by the device connected to camera input. For details, refer to the Installation Manual.



## CAUTION

Rear camera function is only as an assistant tool for driving. It cannot replace the drivers' attentions and judgement.

### ►Rear view camera

This product features a function that automatically switches to the full-screen image of the rear view camera installed on your vehicle when the shift lever is in the REVERSE (R) position.

### ►Camera for Camera View mode

Camera View can be displayed at all times. Note that with this setting, the camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.




## CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise the screen image may appear reversed.

- Immediately verify whether the display changes to the rear view camera image when the shift lever is moved to REVERSE (R) from another position.






## Starting procedure

- 1 Press .
- 2 Touch [Camera View] for connected camera view.  
The video image is displayed on the screen.

# Settings

You can adjust various settings in the main menu.



## Displaying the setting screen


- 1 Press .
- 2 Touch .
- 3 Touch one of the following categories, then select the options.
  - :System Settings (page 28)
  - :Theme Settings (page 29)
  - :Audio Settings (page 29)

### NOTE

Some settings are available only when you stop your vehicle in a safe place and apply the parking brake.

## System Settings

Menu Item	Description
[System Language]	Select the system language.  <b>NOTES</b> <ul style="list-style-type: none"> <li>• If the embedded language and the selected language setting are not the same, the text information may not display properly.</li> <li>• Some characters may not be displayed properly.</li> </ul>
[iPhone USB Settings] [iPod], [WebLink]	Select the desired function to use when the iPhone is connected via USB.
[Date & Time]	Set the date and time by touching  or  .  <b>TIPS</b> <ul style="list-style-type: none"> <li>• You can change the time display format to [AM], [PM] or [24H].</li> <li>• You can change the order of the month/date display format.</li> </ul>
[Back Camera Input]	Select to enable or disable camera view or rear view camera function.
[Dimmer Trigger] [Auto] [Day] [Night]	Select the screen brightness automatically according to the vehicle's lighting switch or select the brightness manually by [Day] or [Night].
[Dimmer Value]	Adjust the display brightness in the day time or night time.

Menu Item	Description
<b>[Picture Adjustment]</b> [Brightness] [Contrast] [Color] [Hue] [Sharpness]	Adjust the image quality while playing USB video. <b>TIP</b> Adjust the image quality of the camera image by touching anywhere on the screens while in Camera View mode.
<b>[Restore Settings]</b>	Touch [OK] to restore the settings to the default settings.  <b>CAUTION</b> Do not turn off the engine while restoring the settings. <b>NOTES</b> <ul style="list-style-type: none"> <li>• The source is turned off and the Bluetooth connection is disconnected before the process starts.</li> <li>• Before starting the restore process, disconnect any device that is connected to the USB port. Otherwise, some settings may not be restored correctly.</li> </ul>
<b>[System Information]</b>	Displaying the firmware version.
<b>[License]</b>	Displaying the open source license.





## Theme Settings

### NOTE

This setting is not available when the video/image file is in playback.

Menu Item	Description
<b>[Background]</b>	Select the wall paper from the preset items in this product.
<b>[Illumination]</b>	Select an illumination color from the preset list.

## Audio Settings

Menu Item	Description
<b>[EQ]</b> [Flat] [Super Bass] [Powerful] [Natural] [Vocal] [Custom]	Select or customize the equalizer curve.
<b>[Fader/Balance]</b>	Touch  or  to adjust the front/rear speaker balance. Set front/rear speaker balance to 0 when using a dual speaker system. Touch  or  to adjust the left/right speaker balance. <b>TIP</b> You can also set the value by touching the desired place on the displayed table.

Menu Item	Description
<b>[Volume]</b>	Adjust the volume level by touching [+] / [-].
[Main Volume]	Other than Bluetooth audio
[Talking Volume]	Hands-free phone
[TA Volume]	Traffic announce
[Bluetooth Audio Volume]	Bluetooth audio
<b>[Loudness]</b> [Off] [Low] [Mid] [High]	Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.
<b>[Bass Boost]</b>	Adjust the bass boost level.
<b>[Cutoff]</b> [Front HPF] [Rear HPF] [Subwoofer LPF]	Adjust each speaker cutoff frequency value.
<b>[Beep Tone]</b>	Select off to disable the beep sound when the button is pressed or the screen is touched.

# Other functions

## Setting the time and date

You can adjust the date and time from [Date & Time] in the [System Settings] menu (page 28).

## Restoring this product to the default settings

You can restore settings or recorded content to the default settings from [Restore Settings] in the [System Settings] menu (page 29).

## Firmware update

When the latest software is released on our website, you can update the software of this unit (page 6).



### CAUTION

- The USB storage device for updating must contain only the correct update file.
- Never turn this product off, disconnect the USB storage device while the firmware is being updated.
- You can only update the firmware when the vehicle is stopped and the parking brake is engaged.

- 1** Download the firmware update files into your computer.
- 2** Connect a blank (formatted) USB storage device to your computer then locate the correct update file and copy it onto the USB storage device.
- 3** Connect the USB storage device to this product (page 18).
- 4** Follow the on-screen instructions to finish updating the firmware.

### NOTES

- This product will reset automatically after the firmware update is completed if the update is successful.
- If an error message appears on the screen, perform the above steps again.


# Appendix

## Troubleshooting

If you have problems operating this product, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorized Pioneer service facility.

### Common problems

**A black screen is displayed, and operation is not possible using the touch panel keys.**

- Power off mode is on.
  - Press  to release the mode.

### Problems with the AV screen

**The screen is covered by a caution message and the video cannot be shown.**

- The parking brake lead is not connected or the parking brake is not applied.
  - Connect the parking brake lead correctly, and apply the parking brake.
- The parking brake interlock is activated.
  - Park your vehicle in a safe place and apply the parking brake.

**The audio or video skips.**

- This product is not firmly secured.
  - Secure this product firmly.

**No sounds are produced. The volume level will not rise.**

- Cables are not connected correctly.
  - Connect the cables correctly.

**iPhone cannot be operated.**

- The iPhone is frozen.
  - Reconnect the iPhone with the USB interface cable for iPhone.
  - Update the iPhone software version.
- An error has occurred.
  - Reconnect the iPhone with the USB interface cable for iPhone.
  - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
  - Update the iPhone software version.
- Cables are not connected correctly.
  - Connect the cables correctly.

**Sound from the iPhone cannot be heard.**

- The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.
  - Use the iPhone to change the audio output direction.

**No back camera image when the vehicle is in reverse.**

- The back camera input setting on the receiver is set to Off.
  - Change the back camera setting to On in the settings menu. (Refer to the System Settings section of this manual to adjust.)
- The camera input may be loose or not connected.
  - Check the connection and make sure the male end of the camera is connected to the brown input on the back of the receiver. (Refer to the installation manual.)
- The reverse lead on the receiver may not be connected to the proper wire at the reverse lamp.



- Check the connection and make sure that the violet/white lead of the receiver is connected to the lead whose voltage changes when the shift lever is put in reverse. (Refer to the installation manual.)

#### **Black screen displayed when the vehicle is in reverse, with no camera installed.**

- Back camera input is set to On.
  - Turn the setting to Off in the settings menu. (Refer to the System Settings section of this manual to adjust.)

### **Problems with the phone screen**

#### **Dialing is impossible because the touch panel keys for dialing are inactive.**

- Your phone is out of range for service.
  - Retry after re-entering the range for service.

### **Problems with Application screen**

#### **The screen is displayed, but operation does not work at all.**

- An error has occurred.
  - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.

#### **The smartphone was not charged.**

- Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.
  - Disconnect the smartphone from the cable, and wait until the smartphone cools down.
- More battery power was consumed than was gained from charging.

- This problem may be resolved by stopping any unnecessary services on the smartphone.

## **Error messages**

When problems occur with this product, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service center.

### **Common**

#### **AMP Error**

- This product fails to operate or the speaker connection is incorrect; the protective circuit is activated.
  - Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

### **USB storage device**

#### **HUB Error**

- The connected USB hub is not supported by this product.
  - Directly connect the USB storage device to this product.

#### **No Response**

- This product cannot recognize the connected USB storage device.
  - Disconnect the device and replace it with another USB storage device.

#### **Load Failed**

- Failed to load the USB storage device.
  - Reconnect the USB storage device.

- Security for the connected USB storage device is enabled.
  - Follow the USB storage device instructions to disable security.
- This product cannot recognize the connected USB storage device.
  - Disconnect the device and replace it with another USB storage device.

#### Device Not Supported

- The connected USB storage device is not supported by this product.
  - Disconnect your device and replace it with a compatible USB storage device.

#### File Error

- This type of file is not supported on this product.
  - Select a file that can be played.

#### No Media Files

- There is no playable file in the USB storage device.
  - Check that the files in the USB storage device are compatible with this product.

#### Unplayable File

- This type of file is not supported on this product.
  - Select a file that can be played.

#### Audio Code Not Supported

- This type of file is not supported on this product.
  - Select a file that can be played.

### iPhone

#### Load Failed

- Failed to load the iPhone.
  - Disconnect the connected iPhone and check the iPhone is working properly.

#### Device Not Supported

- The connected iPhone is not supported by this product.

- Disconnect your device and replace it with a compatible iPhone.

#### No Media Files

- There is no playable file in the iPhone.
  - Check that the files in the iPhone are compatible with this product.

#### No Music Files

- There is no playable file in the selected folder.
  - Select a compatible file with this product in another folder.

### Camera View & AUX

#### No Video Signal

- There is no video signal input.
  - Confirm whether the connection with the unit is established and there is an output from the external device.

## Detailed information for playable media

### Compatibility

#### Common notes about the USB storage device

- Do not leave the USB storage device in any location with high temperatures.
- Depending on the kind of the USB storage device you use, this product may not recognize the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.
- There may be a slight delay when starting playback of files on an USB storage device with complex folder hierarchies.

- Operations may vary depending on the kind of an USB storage device.
- It may not be possible to play some music files from USB because of file characteristics, file format, recorded application, playback environment, storage conditions, and so on.

### USB storage device compatibility

- For details about USB storage device compatibility with this product, refer to Specifications (page 40).
- Protocol: bulk
- You cannot connect a USB storage device to this product via a USB hub.
- Partitioned USB storage device is not compatible with this product.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or gas pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this product may generate noise on the radio.
- Do not connect anything other than the USB storage device.

The sequence of audio files on USB storage device.

For USB storage device, the sequence is different from that of USB storage device.

### Handling guidelines and supplemental information

- Copyright protected files cannot be played back.

## Media compatibility chart

### General

- Maximum playback time of audio file stored on an USB storage device: 7.5 h (450 minutes)

### USB storage device

CODEC FORMAT	MP3, WMA, WAV, AAC, FLAC, AVI, MPEG-PS, MP4, WMV, MKV, MOV, FLV, MPEG-TS
--------------	--

### MP3 compatibility

- Ver. 2.x of ID3 tag is prioritized when both Ver. 1.x and Ver. 2.x exist.
- This product is not compatible with the following: MP3i (MP3 interactive), mp3 PRO, m3u playlist

SAMPLING FREQUENCY	8 kHz to 48 kHz
TRANSMISSION RATE	CBR (8 kbps to 320 kbps)/VBR
ID3 TAG	ver.1.0/1.1/2.2/2.3/2.4

### WMA compatibility

- This product is not compatible with the following: Windows Media™ Audio 9.2 Professional, Lossless, Voice

SAMPLING FREQUENCY	32 kHz to 48 kHz
TRANSMISSION RATE	CBR (8 kbps to 320 kbps)/VBR

### WAV compatibility

- The sampling frequency shown in the display may be rounded.

SAMPLING FREQUENCY	16 kHz to 48 kHz
QUANTIZATION BIT RATE	8 bit, 16 bit

### AAC compatibility

- This product plays back AAC files encoded by iTunes.

SAMPLING FREQUENCY	8 kHz to 48 kHz
TRANSMISSION RATE	CBR (16 kbps to 320 kbps)

## FLAC compatibility

SAMPLING FREQUENCY	8 kHz to 192 kHz
QUANTIZATION BIT RATE	8 bit, 16 bit, 24 bit

## Video files compatibility

- Files may not be played back properly depending on the environment in which the file was created or on the contents of the file.
- This product is not compatible with packet write data transfer.
- This product can recognize up to 32 characters, beginning with the first character, including extension for the file and folder name. Depending on the display area, this product may try to display them with a reduced font size. However, the maximum number of the characters that you can display varies according to the width of each character, and of the display area.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio files play with a short pause between songs.
- Files may not be able to be played back depending on the bit rate.
- The maximum resolution depends on the compatible video codec.

### .avi

Compatible video codec	MPEG4, H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .mpg/.mpeg

Compatible video codec	MPEG2
Maximum resolution	720 × 576
Maximum frame rate	30 fps

### .mp4

Compatible video codec	MPEG4, H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .mkv

Compatible video codec	MPEG4, H.264, VC-1
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .mov

Compatible video codec	MPEG4, H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .flv

Compatible video codec	H.264, H.263
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .wmv

Compatible video codec	VC-1
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .m4v

Compatible video codec	H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .ts

Compatible video codec	H.264, MPEG2
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

### .m2ts

Compatible video codec	H.264, MPEG2
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

**.mts**

Compatible video codec	H.264
Maximum resolution	1 920 × 1 080
Maximum frame rate	30 fps

**Example of a hierarchy****NOTE**

This product assigns folder numbers. The user cannot assign folder numbers.

**Bluetooth**

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**WMA**

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

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**FLAC**

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Foundation

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**AAC**

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode. This unit plays back AAC files encoded by iTunes.

## WebLink

WebLink™ is a trademark of Abalta Technologies, Inc.

## Android

Android is a trademark of Google LLC.

## Detailed information regarding connected iPhone devices

- Pioneer accepts no responsibility for data lost from an iPhone, even if that data is lost while using this product. Please back up your iPhone data regularly.
- Do not leave the iPhone in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPhone malfunction due to the resulting high temperature.
- Do not leave the iPhone in any location with high temperatures.
- Firmly secure the iPhone when driving. Do not let the iPhone fall onto the floor, where it may become jammed under the brake or gas pedal.
- For details, refer to the iPhone manuals.

## iPhone and Lightning



Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and

has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with an Apple product may affect wireless performance. iPhone and Lightning are trademarks of Apple Inc., registered in the U.S. and other countries.

## iOS

iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

## iTunes

iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

## Compatible iPhone models

- iPhone SE (2nd generation)
- iPhone 11 Pro Max
- iPhone 11 Pro
- iPhone 11
- iPhone XR
- iPhone XS Max
- iPhone XS
- iPhone X
- iPhone 8
- iPhone 8 Plus
- iPhone 7
- iPhone 7 Plus
- iPhone SE (1st generation)
- iPhone 6s
- iPhone 6s Plus
- iPhone 6
- iPhone 6 Plus

Depending on the iPhone models, it may not be compatible with some AV sources.

For details about iPhone compatibility with this product, refer to the information on our website.

## Using app-based connected content

### Important

Requirements to access app-based connected content services using this product:

- Latest version of the Pioneer compatible connected content application(s) for the smartphone, available from the service provider, downloaded to your smartphone.
- A current account with the content service provider.
- Smartphone Data Plan.  
Note: if the Data Plan for your smartphone does not provide for unlimited data usage, additional charges from your carrier may apply for accessing app-based connected content via 3G, EDGE and/or LTE (4G) networks.
- Connection to the Internet via 3G, EDGE, LTE (4G) or Wi-Fi network.
- Optional Pioneer adapter cable connecting your iPhone to this product.

### Limitations:

- Access to app-based connected content will depend on the availability of cellular and/or Wi-Fi network coverage for the purpose of allowing your smartphone to connect to the Internet.
- Service availability may be geographically limited to the region. Consult the connected content service provider for additional information.
- Ability of this product to access connected content is subject to change without notice and could be affected by any of the following: compatibility issues with future firmware versions of

smartphone; compatibility issues with future versions of the connected content application(s) for the smartphone; changes to or discontinuation of the connected Content application(s) or service by its provider.

- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.
- In WebLink, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of WebLink functionalities is determined by the App provider, and not determined by Pioneer.
- WebLink allows access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

## Notice regarding video viewing

Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights as protected by the Copyright Law.

## Using the LCD screen correctly

### Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot, resulting in

possible damage to the LCD screen. When not using this product, avoid exposing it to direct sunlight as much as possible.

- The LCD screen should be used within the temperature ranges shown in Specifications on page 40.
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range, because the LCD screen may not operate normally and could be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the touch panel functions. The LCD screen can scratch easily.

### Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside this product, resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a cellular phone, keep the antenna of the cellular phone away from the LCD screen to prevent disruption of the video in the form of disturbances such as spots or colored stripes.

### Maintaining the LCD screen

- When removing dust from or cleaning the LCD screen, first turn this product off and then wipe the screen with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

### LED (light-emitting diode) backlight

A light emitting diode is used inside the display to illuminate the LCD screen.

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality because of the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dimmer and the image will no longer be visible. In that case, please consult your dealer or the nearest authorized Pioneer Service Station.

## Specifications

### General

Rated power source:

14.4 V DC (10.8 V to 15.1 V allowable)

Grounding system:

Negative type

Maximum current consumption:

10.0 A

Dimensions (W × H × D):

Chassis (D):

178 mm × 100 mm × 110 mm (7 in. × 3-7/8 in. × 4-3/8 in.)



**Nose:**

171 mm × 97 mm × 3 mm (6-3/4 in. × 3-7/8 in. × 1/8 in.)

**Weight:**

1.1 kg (2.4 lbs)

**Display****Screen size/aspect ratio:**

6.75 inch wide/16:9 (effective display area: 151.8 mm × 79.68 mm) (6 in. × 3-1/8 in.)

**Pixels:**

800 (Width) × 480 (Height) × 3 (RGB)

**Display method:**

TFT Active matrix driving

**Color system:**

PAL/NTSC compatible

**Temperature range:**

-10 °C to +60 °C (+14 °F to +140 °F)

**Audio****Maximum power output:**

50 W × 4

**Continuous power output:**

22 W × 4 (50 Hz to 15 kHz, 5 %THD, 4 Ω LOAD, Both Channels Driven)

**Load impedance:**

4 Ω (4 Ω to 8 Ω allowable)

**Preout output level (max): 2.0 V****Equalizer (13-Band Graphic Equalizer):****Frequency:**

50 Hz/80 Hz/125 Hz/200 Hz/315 Hz/  
500 Hz/800 Hz/1.25 kHz/2 kHz/3.15  
kHz/5 kHz/8 kHz/12.5 kHz

Gain: ±12 dB (2 dB/step)

**HPF:****Frequency:**

25 Hz/32 Hz/40 Hz/50 Hz/63 Hz/80 Hz/  
100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

**Subwoofer/LPF:****Frequency:**

25 Hz/32 Hz/40 Hz/50 Hz/63 Hz/80 Hz/  
100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

**Bass boost:**

Gain: +12 dB to 0 dB (2 dB/step)

**USB****USB standard spec:**

USB 1.1, USB 2.0 full speed, USB 2.0 high speed

**Max current supply: 1.5 A****USB Class:**

MSC (Mass Storage Class)

**File system: FAT16, FAT32, NTFS****<USB audio>****MP3 decoding format:**

MPEG-1 & 2 & 2.5 Audio Layer 3

**WMA decoding format:**

Ver. 7, 8, 9, 9.1, 9.2 (2 ch audio)

**AAC decoding format:**

MPEG-4 AAC (iTunes encoded only) (Ver. 12.5 and earlier)

**FLAC decoding format:**

Ver. 1.3.0 (Free Lossless Audio Codec)

**WAV signal format:**

Linear PCM

**Sampling frequency:**

Linear PCM:  
16 kHz/22.05 kHz/24 kHz/32 kHz/44.1  
kHz/48 kHz

**<USB image>****JPEG decoding format:**

.jpeg, .jpg

Pixel Sampling: 4:2:2, 4:2:0

**Decode Size:**

MAX: 7 680 (H) × 8 192 (W)

MIN: 32 (H) × 32 (W)

**PNG decoding format:**

.png

**Decode Size:**

MAX: 576 (H) × 720 (W)

MIN: 32 (H) × 32 (W)

**BMP decoding format:**

.bmp

**Decode Size:**

MAX: 936 (H) × 1 920 (W)

MIN: 32 (H) × 32 (W)

**<USB video>****H.264 video decoding format:**

Base Line Profile, Main Profile, High Profile

H.263 video decoding format:

Base Line Profile 0/3

VC-1 video decoding format:

Simple Profile, Main Profile, Advanced Profile

AVI video decoding format

MPEG4 video decoding format:

Simple Profile, Advanced Simple Profile

MPEG1, 2 video decoding format:

Main Profile

Quick Time video decoding format

Matroska video decoding format

TS Stream video decoding format

## Bluetooth

Version:

Bluetooth 4.2 certified

Output power:

+4 dBm Max. (Power class 2)

Frequency band(s):

2.402 GHz to 2.48 GHz

## FM tuner

Frequency range:

87.9 MHz to 107.9 MHz

Usable sensitivity:

12 dBf

Signal-to-noise ratio:

50 dB (analog broadcasting) (IHF-A network)

## AM tuner

Frequency range:

530 kHz to 1 710 kHz

Usable sensitivity:

28  $\mu$ V (S/N: 20 dB)

Signal-to-noise ratio:

45 dB (analog broadcasting) (IHF-A network)

## CTA2006 Specifications



Power output:

14 W RMS  $\times$  4 Channels ( $4 \Omega$  and  $\leq 1 \%$  THD+N)

S/N ratio:

91 dBA (reference: 1 W into  $4 \Omega$ )

### NOTE

Specifications and design are subject to possible modifications without notice due to improvements.

*Register your product at*

**<https://www.pioneerelectronics.com/PUSA/>**

*in Canada* **<https://www.pioneerelectronics.ca/POCEN/>**

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