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DIGITAL MEDIA RECEIVER

Pioneer

English

MVH-09UB
MVH-09UBG

Owner's Manual

MVH-09UB/MVH-09UBG
127075007251_(B6_Horizon)

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About this manual:

- In the following instructions, a USB memory or USB audio player are referred to as “USB device”.

Before You Start

Thank you for purchasing this PIONEER product

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.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

⚠ WARNING

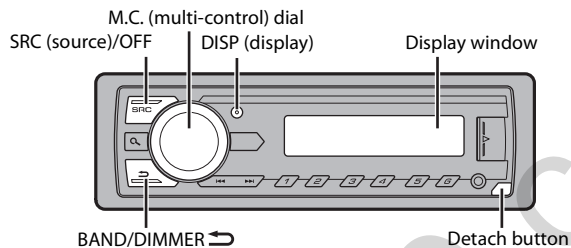
- **Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.**
- Do not attempt to operate the unit while driving. Make sure to pull off the road and park your vehicle in a safe location before attempting to use the controls on the device.

⚠ CAUTION

- Do not allow this unit to come into contact with moisture and/or liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- Always keep the volume low enough to hear outside sounds.

If you experience problems

Should this unit fail to work properly, please contact your dealer or nearest authorized PIONEER Service Station.

Getting Started**Basic operation****MVH-09UB/09UBG****Frequently used operations**

Purpose	Operation
Turn on the power*	Press SRC/OFF to turn on the power. Press and hold SRC/OFF to turn off the power.
Adjust the volume	Turn the M.C. dial.
Select a source	Press SRC/OFF repeatedly.
Change the display information	Press DISP repeatedly.

Purpose	Operation
Return to the previous display/list	Press BAND/DIMMER ←.
Return to the normal display from the menu	Press and hold BAND/DIMMER →.

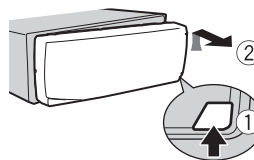
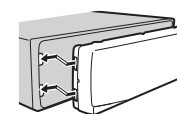
* When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

Display indication

Indication	Description
▶	Appears when a lower tier of the menu or folder exists.
Ⓜ	Appears when the Q button is pressed.
LOC	Appears when the local seek tuning function is set (page 7).
⌘	Appears when random/shuffle play is set.
↺	Appears when repeat play is set.

Detaching the front panel

Detach the front panel to prevent theft. Remove any cables and devices attached to the front panel and turn off the unit before detaching it.

Detach**Attach****Important**

- Avoid subjecting the front panel to excessive shock.

- Keep the front panel out of direct sunlight and high temperatures.
- Always store the detached front panel in a protective case or bag.

Setup menu

When you turn the ignition switch to ON after installation, [SET UP :YES] appears in the display.

1 Press the M.C. dial.

The setup menu disappears after 30 seconds of no operation. If you prefer not to set at this time, turn the **M.C.** dial to select [NO], then press to confirm.

2 Turn the M.C. dial to select the options, then press to confirm.

To proceed to the next menu option, you need to confirm your selection.

Menu Item	Description
LANGUAGE [ENG](English), [PYC](Russian), [TUR](Turkish)	Select the language to display the text information from a compressed audio file.
CLOCK SET	Set the clock.
FM STEP [100], [50]	Select the FM tuning step from 100 kHz or 50 kHz.

3 [QUIT :YES] appears when all the settings have been made.

To return to the first item of the setup menu, turn the **M.C.** dial to select [QUIT :NO], then press to confirm.

4 Press the M.C. dial to confirm the settings.

NOTES

- You can cancel the menu setting by pressing **SRC/OFF**.
- These settings can be made at any time from the SYSTEM settings (page 8) and INITIAL settings (page 4).

Canceling the demonstration display (DEMO OFF)

- 1 Press the **M.C.** dial to display the main menu.
- 2 Turn the **M.C.** dial to select [SYSTEM], then press to confirm.
- 3 Turn the **M.C.** dial to select [DEMO OFF], then press to confirm.
- 4 Turn the **M.C.** dial to select [YES], then press to confirm.

INITIAL settings

- 1 Press and hold **SRC/OFF** until the unit turns off.
- 2 Press the **M.C.** dial to display the main menu.
- 3 Turn the **M.C.** dial to select [INITIAL], then press to confirm.
- 4 Turn the **M.C.** dial to select an option, then press to confirm.

NOTE

The options vary depending on the unit.

Menu Item	Description
FM STEP [100], [50]	Select the FM tuning step from 100 kHz or 50 kHz.

Menu Item	Description
SP-P/O MODE [REAR/SUB.W]	Select when there is a full-range speaker connected to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[SUB.W/SUB.W]	Select when there is a passive subwoofer connected directly to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[REAR/REAR]	Select when there are full-range speakers connected to the rear speaker output leads and RCA output. If there is a full-range speaker connected to the rear speaker output leads, and the RCA output is not used, you may select either [REAR/SUB.W] or [REAR/REAR].
DIM SETTING [SYNC CLOCK], [MANUAL]	Change the display brightness.
SYSTEM RESET [YES], [CANCEL]	Select [YES] to initialize the unit settings. The unit will be restarted automatically. (Some of the settings may be retained even after resetting the unit.)

Radio

The RDS (radio data system) function only works in areas that broadcast RDS signals for FM stations.

Receiving preset stations

- 1 Press **SRC/OFF** to select [RADIO].
- 2 Press **BAND/DIMMER** \rightarrow to select the band from [F1], [FM2], [FM3], [MW] or [LW].

TIP

F1 is for advanced FM band.

- 3 Press a number button (1/ \wedge to 6/ \curvearrowright).

TIP

The \lll / \ggg buttons can be also used to select a preset station when [SEEK] is set to [PCH] in the FUNCTION settings (page 7).

Best stations memory (BSM)

The six strongest stations are stored on the number buttons (1/ \wedge to 6/ \curvearrowright).

- 1 After selecting the band, press the **M.C.** dial to display the main menu.
- 2 Turn the **M.C.** dial to select [FUNCTION], then press to confirm.
- 3 Turn the **M.C.** dial to select [BSM], then press to confirm.

To seek a station manually

- 1 After selecting the band, press \lll / \ggg to select a station. Press and hold \lll / \ggg then release to seek an available station. Scanning stops when the unit receives a station. To cancel seek tuning, press \lll / \ggg .

NOTE

[SEEK] needs to be set to [MAN] in the FUNCTION settings (page 7).

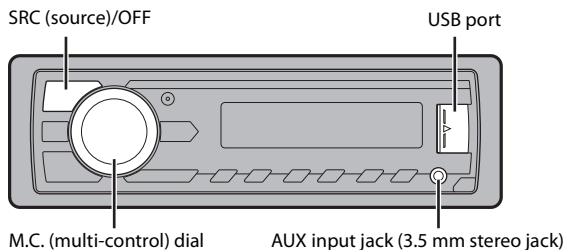
To store stations manually

- 1 While receiving the station you want to store, press and hold one of the number buttons (1/ \wedge to 6/ \curvearrowright) until it stops flashing.

USB/AUX

Playing back

Disconnect headphones from the device before connecting it to the unit.



USB devices (including Android)

- 1 Open the USB port cover.
- 2 Plug in the USB.

NOTE

To automatically switch to [USB] source when a USB device is connected to the unit, set [USB AUTO] to [ON] in the SYSTEM settings (page 9).

CAUTION

Use an optional Pioneer USB cable (CD-U50E) to connect the USB device as any device connected directly to the unit will protrude out from the unit, which could be dangerous.

Before removing the device, stop playback.

AOA connections

A device installed with Android OS 5.0 or later can be connected to the unit via AOA, using the cable supplied with the device.

Listening to music on Android

This function is compatible with devices that have Android OS 5.0 or later installed and also support AOA (Android Open Accessory) 2.0.

- 1 Press **SRC/OFF** to select [ANDROID].

6 En

NOTE

Some Android devices connected via AOA 2.0 may not work properly or emit sounds due to their own software design, regardless of the OS version.

Basic operations

Purpose	Operation
Select a track	Press ◀◀ or ▶▶ .
Fast forward or reverse	Press and hold ◀◀ or ▶▶ .
Pause/resume playback	Press 4/PAUSE .

AUX

- 1 Insert the stereo mini plug into the AUX input jack.
- 2 Press **SRC/OFF** to select [AUX] as the source.

NOTE

If [AUX] is set to [OFF] in the SYSTEM settings, [AUX] cannot be selected as a source (page 8).

Operations

You can make various adjustments in the FUNCTION settings (page 7). Note that the following operations do not work for an AUX device. To operate an AUX device, use the device itself.

Purpose	Operation
Select a folder/album*	Press 1/▲ or 2/▼ .
Select a track/song (chapter)	Press ◀◀ or ▶▶ .
Fast forward or reverse	Press and hold ◀◀ or ▶▶ .

Purpose	Operation
Search for a file from a list	<ol style="list-style-type: none"> 1 Press Q to display the list. 2 Turn the M.C. dial to select the desired file (folder) name or category, then press to confirm. 3 Turn the M.C. dial to select the desired file, then press to confirm. Playback starts.
View a list of the files in the selected folder/category*	Press the M.C. dial when a folder/category is selected.
Play a song in the selected folder/category*	Press and hold the M.C. dial when a folder/category is selected.
Repeat play	Press 6/↶ .
Random/shuffle play	Press 5/↷ .
Pause/resume playback	Press 4/PAUSE .

* Compressed audio files only

Settings

You can adjust various settings in the main menu.

- 1 Press the **M.C.** dial to display the main menu.
- 2 Turn the **M.C.** dial to select one of the categories below, then press to confirm.
 - FUNCTION settings (page 7)
 - AUDIO settings (page 7)
 - SYSTEM settings (page 8)
- 3 Turn the **M.C.** dial to select the options, then press to confirm.

FUNCTION settings

The menu items vary according to the source.

Menu Item	Description
BSM <input type="button" value="RADIO"/>	Store the six strongest stations on the number buttons (1/▲ to 6/↶) automatically.
LOCAL <input type="button" value="RADIO"/>	
F1/FM: [OFF], [LV1], [LV2], [LV3], [LV4]	Restrict the tuning station according to the signal strength.
MW/LW: [OFF], [LV1], [LV2]	
SEEK <input type="button" value="RADIO"/>	
[MAN], [PCH]	Assign ◀◀ or ▶▶ buttons to seek the stations one by one (manual tuning) or select a station from the preset channels.

AUDIO settings

Menu Item	Description
FADER*1	Adjust the front and rear speaker balance.
BALANCE	Adjust the left and right speaker balance.

Menu Item	Description
EQ SETTING	
[SUPER BASS], [POWERFUL], [NATURAL], [VOCAL], [CUSTOM1], [CUSTOM2], [FLAT]	You can also switch the equalizer by pressing EQ repeatedly.
Select an equalizer band and level for further customizing. Equalizer band: [80HZ], [250HZ], [800HZ], [2.5KHZ], [8KHZ] Equalizer level: [+6] to [-6]	
LOUDNESS	
[OFF], [LOW], [MID], [HI]	Compensate for clear sound at low volume.
SUB.W*2	
[NOR], [REV], [OFF]	Select the subwoofer phase.
SUB.W CTRL*2*3	
Cut-off frequency: [50HZ], [63HZ], [80HZ], [100HZ], [125HZ], [160HZ], [200HZ] Output level: [-24] to [+6] Slope level: [-12], [-24]	Only frequencies lower than those in the selected range are output from the subwoofer.
BASS BOOST	
[0] to [+6]	Select the bass boost level.
HPF SETTING	
Cut-off frequency: [OFF], [50HZ], [63HZ], [80HZ], [100HZ], [125HZ], [160HZ], [200HZ] Slope level: [-12], [-24]	Only frequencies higher than the high-pass filter (HPF) cutoff are output from the speakers.

Menu Item	Description
SLA	
[+4] to [-4]	Adjust the volume level for each source except RADIO. Each of the below combinations are set to the same setting automatically. • USB, APP (Android)
*1 Not available when [SUB.W/SUB.W] is selected in [SP-P/O MODE] in the INITIAL settings (page 5).	
*2 Not available when [REAR/REAR] is selected in [SP-P/O MODE] in the INITIAL settings (page 5).	
*3 Not available when [OFF] is selected in [SUB.W].	

SYSTEM settings

You can also access to these menus when the unit is turned off.

Menu Item	Description
LANGUAGE	
[ENG](English), [PYC](Russian), [TUR](Turkish)	Select the language to display the text information from a compressed audio file.
CLOCK SET	
	Set the clock (page 4).
12H/24H	
[12H], [24H]	Select the time notation.
AUX	
[ON], [OFF]	Set to [ON] when using an auxiliary device connected to the unit.

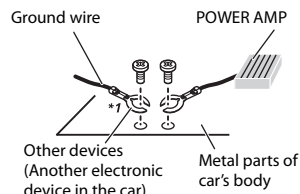
Menu Item	Description
USB AUTO	
[ON], [OFF]	Select [ON] to automatically switch to [USB] source when a USB device/Android is connected to the unit. Select [OFF] when a USB device/Android is being connected to the unit just for charging.

Connections/Installation

Connections

⚠ WARNING

- Use speakers over 50 W (output value) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.
- The black cable is ground. When installing this unit or power amp (sold separately), make sure to connect the ground wire first. Ensure that the ground wire is properly connected to metal parts of the car's body. The ground wire of the power amp and the one of this unit or any other device must be connected to the car separately with different screws. If the screw for the ground wire loosens or falls out, it could result in fire, generation of smoke or malfunction.



*1 Not supplied for this unit

🔑 Important

- When installing this unit in a vehicle without an ACC (accessory) position on the ignition switch, failure to connect the red cable to the terminal that detects operation of the ignition key may result in battery drain.



ACC position



No ACC position

- Use of this unit in conditions other than the following could result in fire or malfunction.
 - Vehicles with a 12-volt battery and negative grounding.
 - When speaker output is used by 4 channels, use speakers over 50 W (maximum input power) and between 4 Ω to 8 Ω (impedance value). Do not use 1 Ω to 3 Ω speakers for this unit.
 - When rear speaker output is used by 2 Ω of subwoofer, use speakers over 70 W (maximum input power).
- * Please refer to connection for a connection method.
- To prevent a short-circuit, overheating or malfunction, be sure to follow the directions below.
 - Disconnect the negative terminal of the battery before installation.
 - Secure the wiring with cable clamps or adhesive tape. Wrap

English

En 9

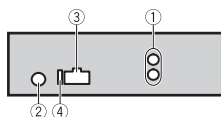
adhesive tape around wiring that comes into contact with metal parts to protect the wiring.

- Place all cables away from moving parts, such as the shift lever and seat rails.
- Place all cables away from hot places, such as near the heater outlet.
- Do not connect the yellow cable to the battery by passing it through the hole to the engine compartment.
- Cover any disconnected cable connectors with insulating tape.
- Do not shorten any cables.
- Never cut the insulation of the power cable of this unit in order to share the power with other devices. The current capacity of the cable is limited.
- Use a fuse of the rating prescribed.
- Never wire the negative speaker cable directly to ground.
- Never band together negative cables of multiple speakers.
- When this unit is on, control signals are sent through the blue/white cable. Connect this cable to the system remote control of an external power amp or the vehicle's auto-antenna relay control terminal (max. 300mA 12 V DC). If the vehicle is equipped with a glass antenna, connect it to the antenna booster power supply terminal.
- Never connect the blue/white cable to the power terminal of an external power amp. Also, never connect it to

the power terminal of the auto antenna. Doing so may result in battery drain or a malfunction.

- The black cable is ground. Ground cables for this unit and other equipment (especially, high-current products such as power amps) must be wired separately. If they are not, an accidental detachment may result in a fire or malfunction.

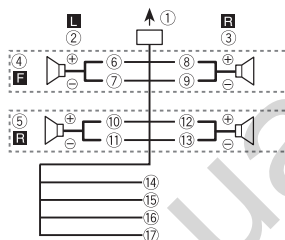
This unit



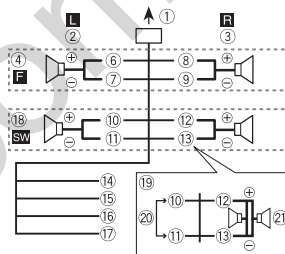
- ① Rear output or subwoofer output
- ② Antenna input
- ③ Power cord input
- ④ Fuse (10 A)

Power cord

Perform these connections when connecting a rear speaker lead to a subwoofer.



Perform these connections when using a subwoofer without the optional amplifier.



- ① To power cord input
- ② Left
- ③ Right
- ④ Front speaker
- ⑤ Rear speaker
- ⑥ White
- ⑦ White/black
- ⑧ Gray
- ⑨ Gray/black
- ⑩ Green

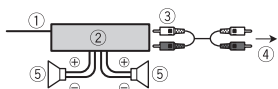
- ⑪ Green/black
- ⑫ Violet
- ⑬ Violet/black
- ⑭ Black (chassis ground)
Connect to a clean, paint-free metal location.
- ⑮ Yellow
Connect to the constant 12 V supply terminal.
- ⑯ Red
Connect to terminal controlled by the ignition switch (12 V DC).
- ⑰ Blue/white
Connect to the system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
- ⑱ Subwoofer (4 Ω)
- ⑲ When using a subwoofer of 2 Ω, be sure to connect the subwoofer to the violet and violet/black leads of this unit. Do not connect anything to the green and green/black leads.
- ⑳ Not used.
- ㉑ Subwoofer (4 Ω) × 2

NOTE

Change the initial menu of this unit. Refer to [SP-P/O MODE] (page 5). The subwoofer output of this unit is monaural.

Power amp (sold separately)


Perform these connections when using the optional amplifier.



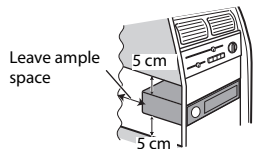
- ① System remote control
Connect to blue/white cable.
- ② Power amp (sold separately)
- ③ Connect with RCA cables (sold separately)
- ④ To rear output or subwoofer output
- ⑤ Rear speaker or subwoofer

Installation

Important

- Check all connections and systems before final installation.
- Do not use unauthorized parts as this may cause malfunctions.
- Consult your dealer if installation requires drilling of holes or other modifications to the vehicle.
- Do not install this unit where:
 - it may interfere with operation of the vehicle.
 - it may cause injury to a passenger as a result of a sudden stop.
- Optimum performance is obtained when the unit is installed at an angle of less than 60°.
 
- When installing, to ensure proper heat dispersal when using this unit, make sure you leave ample space behind the rear panel and wrap any

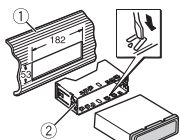
loose cables so they are not blocking the vents.



Leave ample space

DIN mount installation

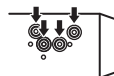
- 1 Insert the supplied mounting sleeve into the dashboard.
- 2 Secure the mounting sleeve by using a screwdriver to bend the metal tabs (90°) into place.



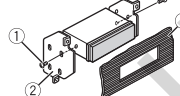
- ① Dashboard
 - ② Mounting sleeve
- Make sure that the unit is installed securely in place. An unstable installation may cause skipping or other malfunctions.

When not using the supplied mounting sleeve

- 1 Line up the holes on the mounting bracket with the holes on the sides of the unit to attach the bracket.



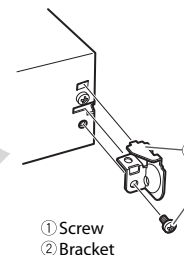
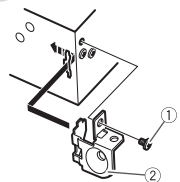
- 2 Screw in one screw on each side to hold the unit in place.



- ① Tapping screw (φ5 mm × 9 mm, not supplied with product)
- ② Mounting bracket
- ③ Dashboard or console

Using the included bracket

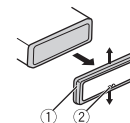
Check to make sure that the included bracket matches your particular model of vehicle and then attach it to the unit as shown below.



- ① Screw
- ② Bracket

Removing the unit (installed with the supplied mounting sleeve)

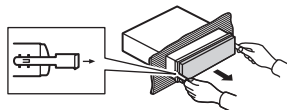
- 1 Remove the trim ring.



- ① Trim ring
- ② Notched tab

- Releasing the front panel allows easier access to the trim ring.
- When reattaching the trim ring, point the side with the notched tab down.

- 2 Insert the supplied extraction keys into both sides of the unit until they click into place.
- 3 Pull the unit out of the dashboard.



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Additional Information

Troubleshooting

The display automatically returns to the normal display.

- No operations have been made for about 30 seconds.
- Perform an operation.

The repeat play range changes unexpectedly.

- Depending on the repeat play range, the selected range may change when another folder or track is being selected or during fast forwarding/reversing.
- Select the repeat play range again.

A subfolder is not played back.

- Subfolders cannot be played when [FLD] (folder repeat) is selected.
- Select another repeat play range.

The sound is intermittent.

- You are using a device, such as a cellular phone, that may cause audible interference.
- Move electrical devices that may be causing the interference away from the unit.

Error messages

Common

AMP ERROR

- This unit fails to operate or the speaker connection is incorrect.
- The protective circuit is activated.
- Check the speaker connection.
- Turn the ignition switch OFF and back to ON again. If the message remains, contact your dealer or an authorized Pioneer Service Station for assistance.

NO XXXX (NO TITLE, for example)

- There is no embedded text information.
- Switch the display or play another track/file.

USB device

FORMAT READ

- Sometimes there is a delay between the start of playback and when you start to hear any sound.
- Wait until the message disappears and you hear sound.

NO AUDIO

- There are no songs.
- Transfer the audio files to the USB device and connect.
- The connected USB device has security enabled.

- Follow the USB device instructions to disable the security.

SKIPPED

- The connected USB device contains DRM protected files.
- The protected files are skipped.

PROTECT

- All the files on the connected USB device are embedded with DRM.
- Replace the USB device.

N/A USB

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

CHECK USB

- The USB connector or USB cable has short-circuited.
- Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB device consumes more than maximum allowable current.
- Disconnect the USB device and do not use it. Turn the ignition switch OFF and back to ACC or ON. Connect only compliant USB devices.

ERROR-19

- Communication failed.

- Perform one of the following operations, then return to the USB source.

- Turn the ignition switch OFF and back to ON.
- Disconnect the USB device.
- Change to a different source.

ERROR-23

- USB device was not formatted properly.
- Format the USB device with FAT12, FAT16 or FAT32.

Handling guidelines**USB storage device**

- Connections via USB hubs are not supported.
- Firmly secure the USB storage device before driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- Depending on the USB storage device, the following problems may occur.
 - Operations may vary.
 - The storage device may not be recognized.
 - Files may not be played back properly.
 - The device may cause audible interference when you are listening to the radio.

Compressed audio compatibility

- Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.
- The unit may not work properly depending on the application used to encode WMA files.
- There may be a slight delay at the start of the playback of audio files embedded with image data, or audio files stored on a USB device with numerous folder hierarchies.
- Russian text to be displayed on this unit should be encoded in one of the following character sets:
 - Unicode (UTF-8, UTF-16)
 - A character set other than Unicode that is used in a Windows environment and is set to Russian in the multi-language setting

⚠ CAUTION

- Pioneer cannot guarantee compatibility with all USB mass storage devices, and assumes no responsibility for any loss of data on media players, smartphones, or other devices while using this product.
- Do not leave a USB storage device in any place that is subject to high temperatures.

WMA files

File extension	.wma
----------------	------

Bit rate	48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Windows Media™ Audio Professional, Lossless, Voice/DRM Stream/Stream with video	Not compatible

MP3 files

File extension	.mp3
Bit rate	8 kbps to 320 kbps (CBR), VBR
Sampling frequency	16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
Compatible ID3 tag version	2.2, 2.3, 2.4
M3u playlist	Not compatible
MP3i (MP3 interactive), mp3 PRO	Not compatible

WAV files

File extension	.wav
Quantization bits	8 and 16 (LPCM), 4 (MSADPCM)
Sampling frequency	16 kHz to 48 kHz (LPCM), 22.05 kHz and 44.1 kHz (MS ADPCM)

FLAC files

- FLAC files may not be playable, depending on the encoder.

File extension	.flac
Sampling frequency	8/11.025/12/16/22.05/24/32/44.1/48 kHz
Quantization bit rate	16 bit
Channel mode	1/2 ch

USB device

- There may be a slight delay when starting playback of audio files on a USB storage device with numerous folder hierarchies.

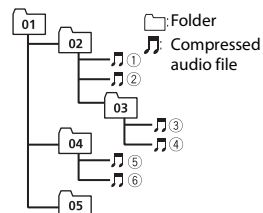
Playable folder hierarchy	Up to eight tiers (A practical hierarchy is less than two tiers.)
Playable folders	Up to 500
Playable files	Up to 15 000
Playback of copyright-protected files	Not compatible
Partitioned USB device	Only the first partition can be played.

Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit. Sequence of audio file depends on the connected device.

Note that the hidden files in a USB device cannot be played back.

Example of a hierarchy



Level 1 Level 2 Level 3 Level 4

01 to 05: Folder number
① to ⑥: Playback sequence

Russian character chart

D: C	D: C	D: C
А: A	Б: B	В: B
Г: Г	Д: Д	Е: E, Ё
Ж: Ж	З: Z	И: I, Й
К: K	Л: L	М: M
Н: H	О: O	П: P
Р: P	С: C	Т: T
У: U	Ф: F	Х: X
Ц: Ц	Ч: Ч	Ш: Ш, Щ
Ъ: Ъ	Ы: Ы	Ь: Ь
Э: Э	Ю: Ю	Я: Я

D: Display C: Character

Copyright and trademark

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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Android™

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Specifications

General

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):
 DIN
 Chassis: 178 mm × 50 mm × 97 mm
 Nose: 188 mm × 58 mm × 17 mm
 D
 Chassis: 178 mm × 50 mm × 97 mm
 Nose: 170 mm × 46 mm × 17 mm
 Weight: 0.5 kg

Audio

Maximum power output:

- 50 W × 4 ch/4 Ω (for no subwoofer)
- 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)

Continuous power output:

22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)

Load impedance: 4 Ω (4 Ω to 8 Ω allowable)

Preout maximum output level: 2.0 V

Loudness contour: +10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)

Equalizer (5-Band Graphic Equalizer):

Frequency: 80 Hz/250 Hz/800 Hz/2.5 kHz/8 kHz
 Equalization range: ±12 dB (2 dB step)

Subwoofer (mono):

Frequency: 50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz
 Slope: -12 dB/oct, -24 dB/oct
 Gain: +6 dB to -24 dB
 Phase: Normal/Reverse

USB

USB standard specification: USB 2.0 full speed

Maximum current supply: 500 mA

USB Protocol:

MSC (Mass Storage Class)
 AOA (Android Open Accessory) 2.0

File system: FAT12, FAT16, FAT32

MP3 decoding format: MPEG-1 & 2 Audio Layer 3

WMA decoding format: Ver. 7, 7.1, 8, 9

(2 ch audio) (Windows Media Player)

FLAC decoding format:

v1.2.1 (Free Lossless Audio Codec)

WAV signal format: Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range (F1): 65.0 MHz to 74.0 MHz

Usable sensitivity (F1): 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)

Signal-to-noise ratio (F1): 72 dB (IEC-A network)

Frequency range (FM2/FM3): 87.5 MHz to 108.0 MHz

Usable sensitivity (FM2/FM3): 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)

Signal-to-noise ratio (FM2/FM3): 72 dB (IEC-A network)

MW tuner

Frequency range: 531 kHz to 1 602 kHz

Usable sensitivity: 25 μV (S/N: 20 dB)

Signal-to-noise ratio: 62 dB (IEC-A network)

LW tuner

Frequency range: 153 kHz to 281 kHz

Usable sensitivity: 28 μV (S/N: 20 dB)

Signal-to-noise ratio: 62 dB (IEC-A network)

NOTE

Specifications and the design are subject to modifications without notice.