

Pioneer



CAR ENTERTAINMENT **2013**
AUDIO & AV



2013 PIONEER NEW PRODUCTS

The elements of entertainment, connectivity, quality and convenience that are essential to Pioneer integrity drive car entertainment on the fast track to perfection.

ENTERTAINMENT

Your car audio experience comes to new life with unprecedented choice of content and control. MIXTRAX technology provides club-like ambiance with seamless Non-Stop Mix Playback and mood-enhancing light color variations. Every journey can be a joy with such awesome sound and effects.

CONNECTIVITY

Smartphone compatibility with our Advanced App Mode puts a world of excitement at your fingertips. Bluetooth® Wireless audio makes extensive entertainment easy and intuitive. Dual USB ports conveniently connect external devices. New 1Ω load amps can power a multi-subwoofer system pumping terrifically deep, loud bass.

QUALITY

Pioneer's passion runs deep at every stage of development. Strict listening tests inform audiophile-grade design to ensure the superiority of Pioneer parts. Audio parameter control is precisely adjustable to optimize acoustic effect. Our edge in innovative engineering and performance opens every show on a strong note.

CONVENIENCE

Functions are easy to customize for exactly the desired effect. Comfortable, intuitive control expands your universe of content and playback options. Our new in-car TV tuner is simple to command through a touch panel. It's amazing how Pioneer makes so much performance so moving from start to finish.



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AV RECEIVERS PAGE 06

AUDIO RECEIVERS PAGE 24

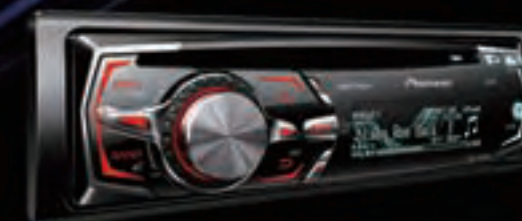
AMPLIFIERS PAGE 50

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Tap Into A Revolution

Connect a smartphone in your car to extend familiar app control to a Pioneer touch display.



Advanced App Mode

Advanced App Mode allows compatible applications on an iPhone® 4, iPhone 4S, or 4th generation iPod touch® to be viewed and controlled directly from the receiver's touch panel display.



Like a smartphone, the AV receiver touch panel can be swiped, flicked or tapped for intuitive app control.

MIXTRAX

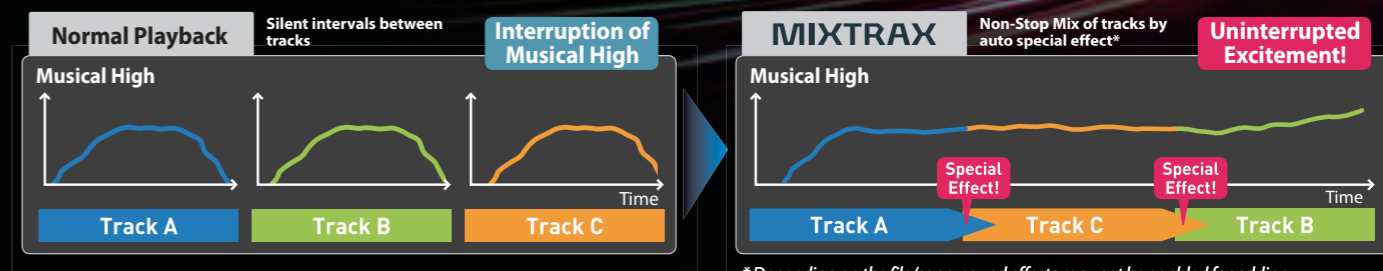
Your TRAX. Your MIX.

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

CAR DJ!

MIXTRAX Benefit

Pioneer presents the magic of MIXTRAX — delivering the Non-Stop MIX experience at home or on the go with technology based on Pioneer's history of innovative professional DJ product development.



* Depending on the file/song, sound effects may not be enabled for adding.



KEY FEATURES STEP-UP COMPARISON CHART

	DIN Size	Display	Preout	Playback	Video Format	Audio Format	AUX Input (Mini-Jack)	USB Interface	Control for iPod/iPhone ¹	Advanced App Mode ²	SD/SDHC Memory Card Slot	Bluetooth ³	MIXTRAX	Dual Zone Audio/Video	Auto EQ ⁴	Advanced Sound Retriever	Back-Up Camera Ready	Page Number
AVH-P8450BT	2-DIN	7.0" VGA	3 (4 V)	DVD/CD	H.264 WMV DivX	MP3 WMA AAC	Rear	Rear x 2				HFP A2DP AVRCP						10
AVH-X5550BT	2-DIN	7.0" VGA	3 (4 V)	DVD/CD	DivX	MP3 WMA AAC	Rear	Rear				HFP A2DP AVRCP SPP	*6					14
AVH-X4550DVD	2-DIN	7.0" VGA	3 (4 V)	DVD/CD	DivX	MP3 WMA AAC	Rear	Rear					*6					15
AVH-X2550BT	2-DIN	6.1" VGA	3 (2 V)	DVD/CD	DivX	MP3 WMA AAC	Rear	Rear				HFP A2DP AVRCP SPP	*6					14
AVH-X1550DVD	2-DIN	6.1" VGA	3 (2 V)	DVD/CD	DivX	MP3 WMA AAC	Rear	Rear					*6					15
AVH-P6350BT	1-DIN	7.0"	3 (4 V)	DVD/CD	DivX	MP3 WMA AAC	Front	Front				HFP						18
AVH-P5350DVD	1-DIN	7.0"	3 (4 V)	DVD/CD	DivX	MP3 WMA AAC	Front	Front				CD-BT8200						18
AVH-5450DVD	1-DIN	7.0"	2 (2 V)	DVD/CD	DivX	MP3 WMA AAC	Front	Front										19
DVH-855AVBT	1-DIN	3.5"	2 (4 V)	DVD/CD	DivX	MP3 WMA	Front	Front				HFP A2DP AVRCP ⁵						20
DVH-755AV	1-DIN	3.0"	2 (2 V)	DVD/CD	DivX	MP3 WMA	Front	Front										20
DVH-345SUB	1-DIN		2 (2 V)	DVD/CD	DivX	MP3 WMA AAC	Front	Front										21
MVH-8350BT	1-DIN	3.0"	3 (4 V)		DivX	MP3 WMA AAC	Front	Front				HFP						22
MVH-7350	1-DIN	3.0"	3 (4 V)		DivX	MP3 WMA AAC	Front	Front										22

*1. Optional cable required. Please refer to page 94 for compatibility.
 *2. Optional cable CD-IU2015 required.
 *3. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile (version 1.3), SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.
 *4. CD-MC20 required.
 *5. AVRCP (version 1.0)
 *6. Compatible with MIXTRAX EZ. Not compatible with full-featured Non-Stop Mix Play using MIXTRAX software that analyzes track information (BPM, bar, beat/vocal position, mood).

Advanced App Mode

AVH-P8450BT AVH-X5550BT AVH-X4550DVD
AVH-X2550BT AVH-X1550DVD

Advanced App Mode allows compatible applications on an iPhone® 4, iPhone 4S, or 4th generation iPod touch® to be viewed and controlled directly from the receiver's touchscreen display.



Compatible Apps

Navigation/Travel	
Maps	navfree
NavGate Drive	Waze
Extra Mile	DashCommand™
Music	
MIXTRAX	StreamS HiFi Radio
AUPEO! Personal Radio	Livio Radio
Utility	
Calendar	Photos

App Mode

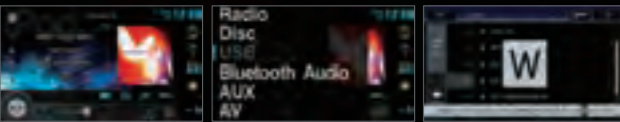
All Receivers Compatible with iPod

App Mode allows the user to view compatible app-based content from a connected iPhone or iPod touch on the receiver's display while controlling the application directly from the iPhone or iPod touch.



Advanced User Interface

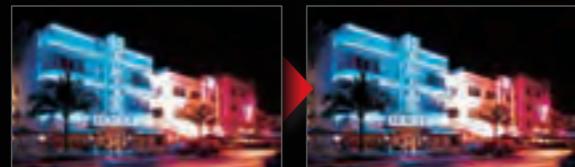
The intuitive graphic user interface delivers rich content while being easy to use.



Advanced Display Resolution

AVH-P8450BT

A high resolution display panel brilliantly enhances the visibility and clarity of various video formats.



Simulated image

Dual USB Ports

AVH-P8450BT

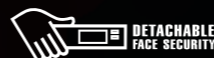
Dual USB ports, each with 1 amp charging adds more connectivity, convenience, and utility to your dash.



Detachable Face Security™

AVH-P8450BT AVH-P6350BT AVH-P5350DVD
AVH-5450DVD DVH-855AVBT DVH-755AV
DVH-345SUB MVH-8350BT MVH-7350

The extra-thin face panel of the AVH-P8450BT is easy to remove and carry out of the car to deter theft.



MIXTRAX

AVH-P8450BT AVH-X5550BT AVH-X4550DVD AVH-X2550BT AVH-X1550DVD

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

MIXTRAX Advantage

Drawing from Pioneer's rich DJ heritage with our passion for music, MIXTRAX delivers a unique DJ infused listening experience to listeners in the car. MIXTRAX takes the music from an iPhone, iPod® or USB device and plays it back with added transitions and effects, creating a virtual DJ inside the Pioneer product.



How MIXTRAX Works



MIXTRAX, MIXTRAX App, and MIXTRAX EZ Comparison

	Advantage	MIXTRAX Software	Compatible Source	Compatible Models
MIXTRAX	Full-featured Non-Stop Mix Play*1	Compatible	USB Device SD Memory Card	AVH-P8450BT
MIXTRAX App	Quick and Easy, Non-Stop Mix Play	**	iPhone, iPod touch	AVH-P8450BT AVH-X5550BT AVH-X4550DVD AVH-X2550BT AVH-X1550DVD
MIXTRAX EZ	Quick and Easy Mix Play	—	USB Device SD Memory Card iPod, iPhone	AVH-P8450BT AVH-X5550BT AVH-X4550DVD AVH-X2550BT AVH-X1550DVD

*1. Requires music analysis by MIXTRAX Software from Pioneer (free download).
*2. Creates playlists using data from the MIXTRAX cloud server.

Digital and Analog TV Tuners*

AVH-X5550BT AVH-X4550DVD
AVH-X2550BT AVH-X1550DVD

Connect Pioneer TV Tuner to enjoy TV programs in your car. Touch panel display operation via AV receiver makes it simple.

* The ISDB-T digital and PAL/SECAM/NTSC analog TV broadcasting systems are not compatible with all regions.



Bluetooth®

AVH-P8450BT AVH-X5550BT AVH-X2550BT
AVH-P6350BT DVH-855AVBT MVH-8350BT

Bluetooth Wireless Technology makes hands-free operation comfortable and safe while driving.



Sonic Center Control

All Receivers (Except DVH Receivers)

Adjusts frequency phase and acoustic characteristics by up to 15 steps for clearer, focused soundstage.



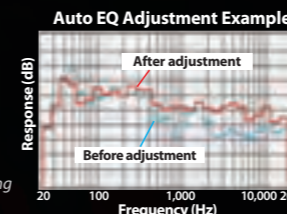
Auto EQ

All Receivers (Except DVH Receivers)

Automatically tailors acoustics by fine-tuning frequency bandwidths plus front/rear speaker digital parametric equalization. Result: smooth sound full of subtle nuance and clarity.



Microphone for Auto EQ Frequency Band Fine-Tuning



After adjustment: Smooth response with subtle nuances reproduced clearly.

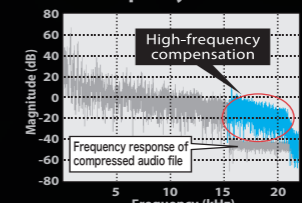
Before adjustment: Rough frequency response curve; unclear overall sound.

Advanced Sound Retriever

All Receivers (Except DVH-855AVBT and DVH-755AV)

Enhances compressed digital audio files to a higher quality sound.

Sound quality deterioration due to compressed audio file



When Advanced Sound Retriever is "ON", the high frequency range is compensated to match the frequency response curve of the original sound.

AVH-P8450BT

In-Dash DVD Multimedia AV Receiver with 7" VGA Touch Display, MIXTRAX, Built-in Bluetooth®, SD Memory Card Slot, and USB Direct Control for iPod/iPhone



7.0W **VGA** **LED** **MULTI-LANGUAGE DISPLAY** **DVD** **MP3** **WMA** **MIXTRAX** **ADVANCED APP MODE** **Made for iPod iPhone**

AAC **DIVX** **DOLBY DIGITAL** **MP3** **WMA** **Hi-VOLT** **24bit** **Bluetooth** **Dual USB**

RDS **SUPER TUNER III** **MOSFET 50W x 4** **Back Up Camera**

Key Selling Points

- Point 1** Fully controls Apps compatible with Advanced App Mode through the display — Navi App, Drive App, Music App, etc. **ADVANCED APP MODE** **Made for iPod iPhone**
- Point 2** Full-featured Non-Stop Mix Play, based on music data analysis using MIXTRAX software, seamlessly delivers auto beats that sound as if a club DJ is creating the mix. **MIXTRAX**
- Point 3** The Advanced User Interface makes various audio/video functions exceptionally operable using an innovative GUI.
- Point 4** Pioneer's flagship AVH-P8450BT has features for making the best use of versatile functions in-car entertainment of the highest order. **DETACHABLE FACE SECURITY** **Dual USB** **iDual Zone**

Main Features

- MIXTRAX**
 - 7" VGA Touch Panel Display with LED Backlight
 - Advanced Display Resolution (ADR)
 - Multi-Language Display* (Menu/ID3 Tag)
 - Color Customization (5-Display Colors and 112-Key Colors)
 - USB Direct Control for iPod/iPhone and USB Devices (USB Interface Cable for iPod/iPhone Required)
 - Advanced App Mode (CD-IU2015 Required)
 - Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
 - Dual USB Ports (Rear: High Current 1A Handling Capability)
 - SD/SDHC Memory Card Slot
 - AUX Input (Audio/Video)
 - RGB Input
 - DVD/CD Player
 - H.264/WMV Playback from CD/DVD/USB Device/SD Memory Card
 - DivX/MPEG** -1, -2, -4/iTunes AAC/MP3/WMA/WAV*** Playback from CD/DVD/USB Device/SD Memory Card
 - Dual Zone Audio/Video
 - Advanced Sound Retriever
 - MOSFET 50 W x 4
 - Hi-Volt Preouts x 3 (4 V)
 - 8-Band Graphic EQ
 - Auto EQ (CD-MC20 Required)
 - Sonic Center Control
 - Multi-Channel Processor Ready
 - JPEG Slide Show
 - Back-Up Camera Ready
 - Detachable Face Security™
 - Wired Remote Input
 - Display Off Mode
 - RDS
- * Please see page 17 for more details.
 ** MPEG-1/-2 files stored in a USB Device or SD Memory Card can't be played.
 *** WAV playback from USB Device and SD Memory Card only.
 Note: Text in blue indicates feature differentiation from other models.
 Please see pages 90 and 91 for accessories.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S (Advanced App Mode Compatible)
iPhone 4 (Advanced App Mode Compatible)
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1



A Revolutionary Way to Use Apps in the Car
 Pioneer's game-changing AVH-P8450BT revolutionizes the driver's smartphone experience by bringing compatible iPhone 4, iPhone 4S, or 4th generation iPod touch apps to your dash. When connected to an iPhone 4, iPhone 4S, or a 4th generation iPod touch loaded with applications compatible with Advanced App Mode, the AVH-P8450BT in-dash receiver provides the ultimate in-vehicle smartphone experience.

ADVANCED APP MODE **Made for iPod iPhone**

How to Use Advanced App Mode

- Step 1** Install the AppRadio app and other 3rd party apps to your iPhone 4, iPhone 4S, or 4th generation iPod touch.
- Step 2** After booting the app, connect your iPhone to the receiver using the Advanced App Mode compatible cable CD-IU2015. Pressing the "MODE" button lets you change to the Advanced App Mode's Home display screen.
- Step 3** Through the display of the AVH-P8450BT, you can fully control apps compatible with Advanced App Mode, such as Maps™.

Compatible Apps

Navigation/Travel	Music
Maps Find destinations, view route direction lists and route to that location through Google Maps™ local search.	MIXTRAX Pioneer's proprietary MIXTRAX app can read analyzed music data in your iTunes® library to create custom playlists for non-stop song mixes with added DJ effects.
NavGate Drive The NavGate Drive makes your Pioneer In-Car receiver change to full function turn by turn navigation.	AUPEO! Personal Radio Safely access, stream and personalize AUPEO!'s 120+ radio stations from your car dashboard.
navfree Navfree is a completely free GPS navigation app, and map data is created by a community of 1000s of users around the world. <i>Note: In-App purchase required to activate the AppRadio interface.</i>	Stream5 HiFi Radio Internet radio app for iPhone 4, iPhone 4S, or 4th generation iPod touch has a directory of thousands of AAC and HE-AAC streams including AM/FM stations and NET streams.
Waze A cool social GPS driving and navigation app that connects you to other drivers & provides full turn by turn navigation guidance. Note an active data connection is required to use this App.	Livio Radio Benefit from more than 42,000 worldwide AM/FM/Internet radio stations live on your car speaker system.
Extra Mile All-in-one app for convenient voice navigation with trip logs and audio feedback to improve your driving performance and conserve fuel.	Utility
DashCommand™ Use your touchscreen to create and use stunning virtual dashboards including digital gauges, analog gauges, indicator lights, and more.	Calendar Access your iPhone 4, iPhone 4S, or 4th generation iPod touch calendar. View important events and reminders. Functionality is bundled with the Pioneer AppRadio app.
	Photos View photos stored on your iPhone 4, iPhone 4S, or 4th generation iPod touch. Access albums and camera rolls and even view a slideshow. Functionality is bundled with the Pioneer AppRadio app.

Note: Pioneer's AppRadio app provides access to Maps, Calendar, Photos, and installed 3rd party compatible apps. Third party apps or Pioneer's free "AppRadio" app must be downloaded from the iTunes App Store to an iPhone 4, iPhone 4S, or 4th generation iPod touch to enjoy compatible apps using Advanced App Mode.

As the number of compatible apps continues to increase, please refer to local branches or distributors of Pioneer regarding the latest information about apps available in particular regions.

App Mode

Pioneer's App Mode allows users to access/control App-based content from their iPhone or iPod touch and view it on their Pioneer in-dash multimedia receiver.

Video*

YouTube®
 This iTunes-like web application makes it easier to watch and share YouTube videos. Create a playlist or choose a preset, then sit back and watch.

*Operations on a receiver's display are limited in App Mode. Audio/video contents from an iPod or iPhone can only be played with an app that outputs audio/video signals. Not every app is compatible with App Mode.

Important Note: AppRadio app is available from iTunes App Store. Please use in Internet connection situations. AppRadio App & Compatible Apps may not be available in some countries.

MIXTRAX

Point 2

How MIXTRAX Works

MIXTRAX, MIXTRAX App, and MIXTRAX EZ Comparison

	Advantage	MIXTRAX Software	Compatible Source
MIXTRAX	Full-featured Non-Stop Mix Play*1	Compatible	USB Device SD Memory Card
MIXTRAX App	Quick and Easy, Non-Stop Mix Play	+2	iPhone, iPod touch
MIXTRAX EZ	Quick and Easy Mix Play	—	USB Device SD Memory Card iPod, iPhone

*1. Requires music analysis by MIXTRAX Software from Pioneer (free download).
*2. Creates playlists using data from the MIXTRAX cloud server.

MIXTRAX Enjoy full featured non-stop mixes created from your music library analyzed with MIXTRAX software. You can also experience MIXTRAX as an application for the iPhone 4, iPhone 4S, or 4th generation iPod touch and using Advanced App Mode to control the MIXTRAX app through the receiver's touchscreen display.

MIXTRAX App Experience your music as a simple non-stop mix.

MIXTRAX Music Analysis

The MIXTRAX PC software automatically analyzes a track's musical attributes including beats per minute, tempo and mood to determine the best transition points for each song. When the analyzed files are transferred to a USB device or SD card, the AVH-P8450BT reads the encoded data, allowing you to enjoy a seamless mix of songs from your own music library. The MIXTRAX iOS App provides similar benefits to the PC software, but only analyzes the music within the music library stored on your iPhone or iPod touch. Utilizing the MIXTRAX App through the AVH-P8450BT's Advanced App Mode function allows the user to view, select, and experience the MIXTRAX mixes directly from the AVH-P8450BT's touchscreen display.

Auto DJ Style Playlist

From a USB device or SD memory card, the receiver automatically displays the available MIXTRAX playlists (Beat, Chill, Thump, Distortion, High) based on the music files stored on the USB device or SD memory card. To make natural sounding transitions between music within the mix for playback, this function selects music by matching pieces that are similar in BPM tempo and mood.

MIX Style

Select among three mixing styles of different track time durations and effects in preset four steps.

Standard Style*

Joins hook-line parts with moderate effect.

Track Time: Short [] Long [] Effect: Simple [] Active []

Simple Style*

Joins tracks in long playback with natural effect.

Track Time: Short [] Long [] Effect: Simple [] Active []

Active Style

Joins tracks in short playback with bold effect.

Track Time: Short [] Long [] Effect: Simple [] Active []

* Also available in MIXTRAX App.

Beat Matching

Synchronizing the beat of the music makes for natural Non-Stop Mix Play enjoyment.

Without beat timing matching

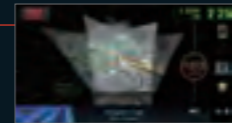
Music Beat Timing

With beat timing matching

Dancing Album Art*

Album Jacket Dance function bounces and gyrates the album art to the music as it plays.

* MIXTRAX App is not compatible with Dancing Album Art.



Point 4

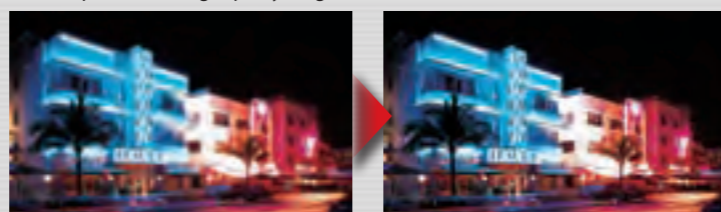
Detachable Face Security™

The extra-thin face panel of the AVH-P8450BT is easy to remove and carry out of the car to deter theft.



Advanced Display Resolution (ADR)

By incorporating extra-high-resolution technology, even low-resolution moving images can be reproduced as high-quality images.



Simulated image

Point 3

Advanced User Interface

Direct Access to MIXTRAX and MIXTRAX EZ

With Non-Stop Mix, auto beat sound seamlessly delivers a musical high as if a club DJ is mixing.

Source Change Display

Cool, simple display featuring large easy-to-read font makes it effortless to change a source without switching the display.



Advanced Sound Retriever

Equalizer Setting Display

Directly access the equalizer setting display. With its unique Advanced Touch Slide Operation, you simply drag a finger to change the EQ curve and audio characteristics.



You can set EQ curve freely just by dragging a finger.

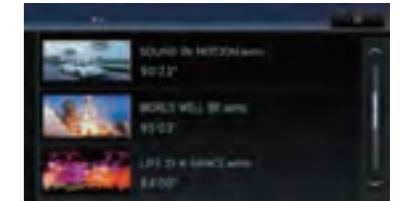
Bluetooth® Hands-Free Display

The AVH-P8450BT allows safe, simple, hands-free wireless-enabled cell phones. Just touch the cell phone icon in the receiver display for direct access to the Bluetooth display. Simple pairing requires no input of a PIN code.



Browsing Display

Thumbnail images make video file search easy. Press playback button to preview video in the browsing display for quick, easy access and search for what you want to see.



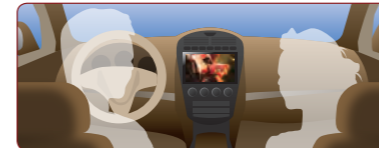
Favorite Menu Register

You can register a frequently used menu and use it as shortcut.

Home Menu Display

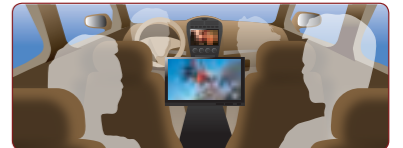
Press home button to display source list. Icons are well designed and positioned for quick recognition of sources and easy access to the desired one. With the Dual Zone Audio/Video system, flicking a finger right or left makes it easy for front and rear passengers to switch sources, and access and control displays for each source.

Front Zone



Front Source Display

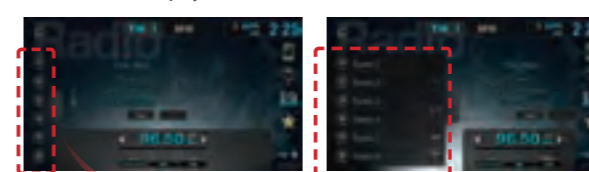
Rear Zone



Rear Source Display

Radio Display

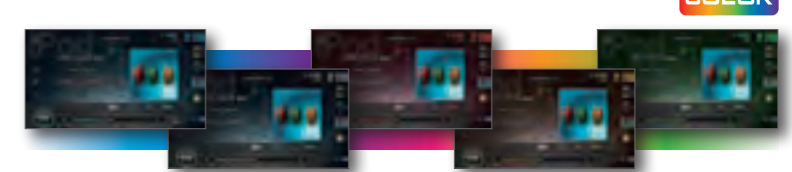
Preset channels are positioned at the left side of the display. You can see the lists in the same display at once, and select a channel without a hassle.



Easy Access

Customize Your Mode: Mix or Match Your Colors

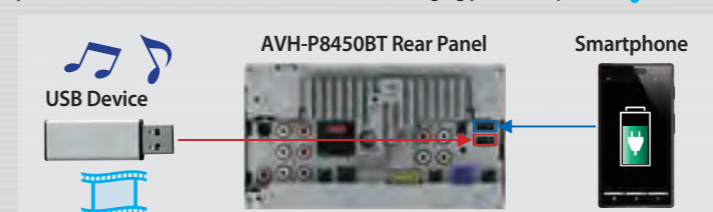
Select among five (Blue/Red/Amber/Green/Violet) colors for the display and 112 different colors to match unit illumination to the dash.



Brilliant!

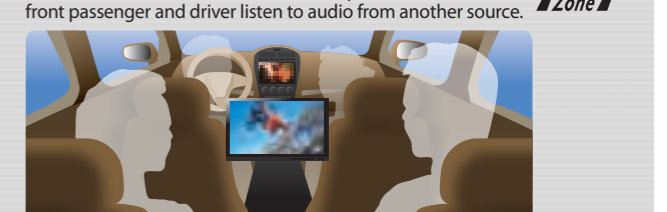
Dual USB Ports

More connectivity adds more convenience and utility. For example, you can listen to music from a USB device while charging your smartphone.



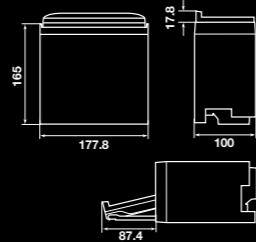
Dual Zone Audio/Video

The AVH-P8450BT lets rear seat passengers enjoy DVDs and CDs via additional rear screens and headphones, even while a front passenger and driver listen to audio from another source.



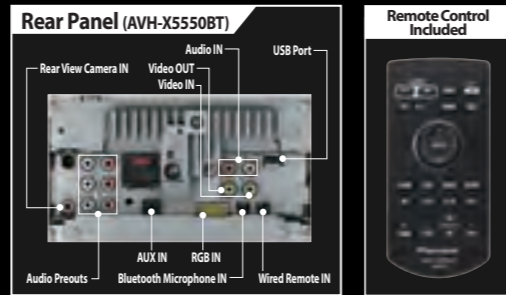
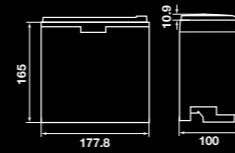
AVH-X5550BT NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" VGA Touch Display, MIXTRAX, Built-in Bluetooth®, and USB Direct Control for iPod/iPhone



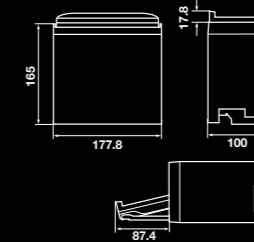
AVH-X2550BT NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.1" VGA Touch Display, MIXTRAX, Built-in Bluetooth, and USB Direct Control for iPod/iPhone



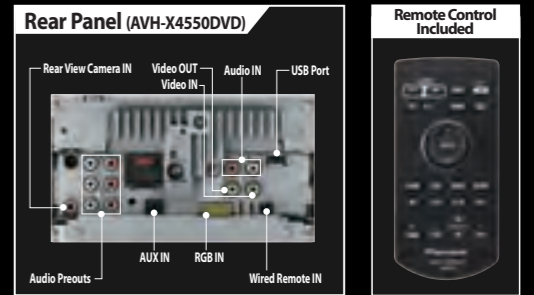
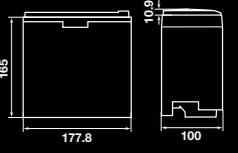
AVH-X4550DVD NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" VGA Touch Display, MIXTRAX, and USB Direct Control for iPod/iPhone



AVH-X1550DVD NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.1" VGA Touch Display, MIXTRAX, and USB Direct Control for iPod/iPhone



*1. 6.1-inch display: AVH-X2550BT *2. AVH-X5550BT

Key Selling Points

- Point 1** Fully controls Apps compatible with Advanced App Mode through the display — Navi App, Drive App, Music App, etc.
- Point 2** Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. Display Visualizer provides for cool visuals that suitably enhance the mood in your car cabin.
- Point 3** The Advanced User Interface makes various audio/video functions exceptionally operable using an innovative GUI.



MIXTRAX

*1. 7.0-inch display: AVH-X4550DVD *2. AVH-X1550DVD

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Multi-Language Display* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- USB Direct Control for iPod/iPhone and USB Devices (USB Interface Cable for iPod/iPhone Required)
- Advanced App Mode (CD-IU201S Required)
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player
- DivX/MPEG-1, -2, -4/iTunes AAC/MP3/WMA Playback from CD/DVD/USB Device
- Advanced Sound Retriever
- MOSFET 50 W x 4
- 8-Band Graphic EQ
- Auto EQ (CD-MC20 Required)
- Sonic Center Control
- Pioneer TV Tuner Ready (GEX-1550DTV/GEX-1550TV)
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Display Off Mode
- RDS

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S (Advanced App Mode Compatible)
iPhone 4 (Advanced App Mode Compatible)
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

AVH-X5550BT Main Features

- 7" VGA Touch Panel Display with LED Backlight
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- Hi-Volt Preouts x 3 (4 V)

AVH-X4550DVD Main Features

- 7" VGA Touch Panel Display with LED Backlight
- Hi-Volt Preouts x 3 (4 V)

AVH-X2550BT Main Features

- 6.1" VGA Touch Panel Display with LED Backlight
- Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
- RCA Preouts x 3 (2 V)

AVH-X1550DVD Main Features

- 6.1" VGA Touch Panel Display with LED Backlight
- RCA Preouts x 3 (2 V)

* Please see page 17 for more details.

Note: Text in blue indicates feature differentiation from other models.

Please see pages 90 and 91 for accessories.

Point 1

A Revolutionary Way to Use Apps in the Car NEW

Pioneer's game-changing AVH-X5550BT, AVH-X4550DVD, AVH-X2550BT and AVH-X1550DVD revolutionize the driver's smartphone experience by bringing compatible iPhone 4, iPhone 4S, or 4th generation iPod touch apps to your dash. When connected to an iPhone 4, iPhone 4S, or a 4th generation iPod touch loaded with applications compatible with Advanced App Mode, the AVH-X5550BT, AVH-X4550DVD, AVH-X2550BT and AVH-X1550DVD in-dash receivers provide the ultimate in-vehicle smartphone experience.



How to Use Advanced App Mode



Install the AppRadio app and other 3rd party apps to your iPhone 4, iPhone 4S, or 4th generation iPod touch. After booting the app, connect your iPhone to the receiver using the Advanced App Mode compatible cable CD-IU201S. Pressing the "MODE" button lets you change to the Advanced App Mode's Home display screen. Through the display of the AV receiver, you can fully control apps compatible with Advanced App Mode, such as Maps™.

Compatible Apps

Navigation/Travel	
	Maps Find destinations, view route direction lists and route to that location through Google Maps™ local search.
	NavGate Drive The NavGate Drive makes your Pioneer In-Car receiver change to full function turn by turn navigation.
	navfree Navfree is a completely free GPS navigation app, and map data is created by a community of 1000s of users around the world. <i>Note: In-App purchase required to activate the AppRadio interface.</i>
	Waze A cool social GPS driving and navigation app that connects you to other drivers & provides full turn by turn navigation guidance. Note an active data connection is required to use this App.
	Extra Mile All-in-one app for convenient voice navigation with trip logs and audio feedback to improve your driving performance and conserve fuel.
	DashCommand™ Use your touchscreen to create and use stunning virtual dashboards including digital gauges, analog gauges, indicator lights, and more.

Music	
	MIXTRAX Pioneer's proprietary MIXTRAX app can read analyzed music data in your iTunes® library to create custom playlists for non-stop song mixes with added DJ effects.
	AUPEO! Personal Radio Safely access, stream and personalize AUPEO!'s 120+ radio stations from your car dashboard.
	StreamS HiFi Radio Internet radio app for iPhone 4, iPhone 4S, or 4th generation iPod touch has a directory of thousands of AAC and HE-AAC streams including AM/FM stations and NET streams.
	Livio Radio Benefit from more than 42,000 worldwide AM/FM/Internet radio stations live on your car speaker system.
Utility	
	Calendar Access your iPhone 4, iPhone 4S, or 4th generation iPod touch calendar. View important events and reminders. Functionality is bundled with the Pioneer AppRadio app.
	Photos View photos stored on your iPhone 4, iPhone 4S, or 4th generation iPod touch. Access albums and camera rolls and even view a slideshow. Functionality is bundled with the Pioneer AppRadio app.

As the number of compatible apps continues to increase, please refer to local branches or distributors of Pioneer regarding the latest information about apps available in particular regions.

CD-IU201S
Advanced App Mode USB Interface Cable for iPhone 4, iPhone 4S, or 4th Generation iPod touch
Required to utilize Advanced App Mode.

Important Note: AppRadio app is available from iTunes App Store. Please use in Internet connection situations. AppRadio App & Compatible Apps may not be available in some countries.

Point 2

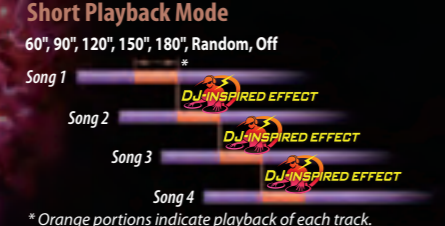
MIXTRAX NEW

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.



MIXTRAX EZ for Quick Non-Stop MIX Play
Tracks are joined by various random sound effects in Non-Stop MIX Play, and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

Short Playback Mode
You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.



Selectable Sound Effect



Display Visualizer



MIXTRAX

Point 3

Advanced User Interface NEW

Direct Access to MIXTRAX EZ

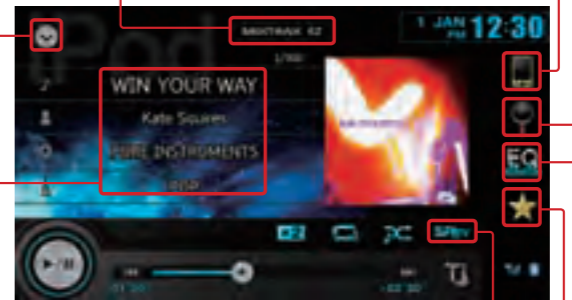
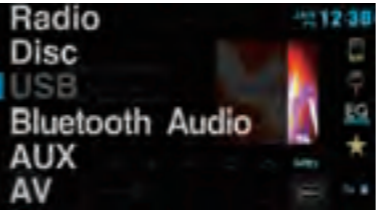
With Non-Stop Mix, auto beat sound seamlessly delivers a musical high as if a club DJ is mixing.

Bluetooth® Hands-Free Display

The AVH-X5550BT and AVH-X2550BT allow safe, simple, hands-free wireless-enabled cell phones. Just touch the cell phone icon in the receiver display for direct access to the Bluetooth display. Simple pairing requires no input of a PIN code.

Source Change Display

Cool, simple display featuring large easy-to-read font makes it effortless to change a source without switching the display.



List Search

Now you can search using fewer steps to find the next song without interrupting what is already playing, or reverting back to another layer of command.



Alphabetical Search (when iPod is connected)

Advanced Sound Retriever

You can register a frequently used menu and use it as shortcut.

Tag as Shortcut to List Display

Press tag to take a shortcut to each page list. For example, press the Artist tag to switch to the page that lists artists.

Other Points

Pioneer TV Tuner Accessory NEW

GEX-1550DTV and GEX-1550TV TV tuner can be operated via receiver touch panel displays.



GEX-1550DTV NEW
Digital TV Tuner
• Compatible broadcasting system: ISDB-T

GEX-1550TV NEW
Analog TV Tuner
• Compatible broadcasting systems: PAL/SECAM/NTSC



Multi-Language Display MULTI-LANGUAGE DISPLAY

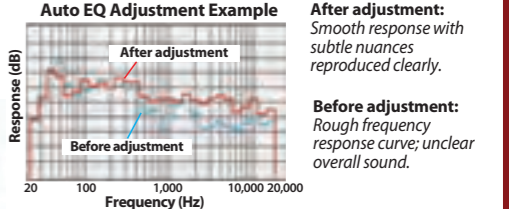
New Pioneer AV receivers feature Multi-Language Display of Menu and ID3 tag text.

Asia English/Thai/Chinese (Simplified)/Bahasa Indonesia		RC
Central America/Latin America/Oceania English/French/Spanish/Portuguese/Chinese (Traditional)		RD
Middle East Asia English/French/Portuguese/German/Dutch/Russian/Arabic/Persian/Hebrew		RI

Auto EQ*

It is difficult to reproduce music well in a car because speaker positioning is constrained by interior space and other conditions. These limitations can lead to sound phase distortion, as well as speaker sound reflection against glass and absorption by dashboard and seats. Auto EQ tailors specific musical characteristics according to taste, uses a microphone to monitor and analyze acoustics, then automatically fine-tunes all frequency bandwidths and front and rear speaker digital parametric equalization.

CD-MC20
Microphone for Auto EQ Frequency Band Fine-Tuning
* CD-MC20 Required

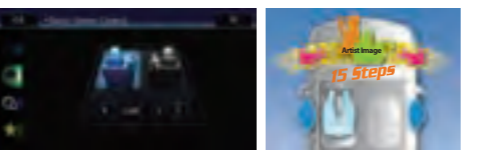


After adjustment: Smooth response with subtle nuances reproduced clearly.

Before adjustment: Rough frequency response curve; unclear overall sound.

Sonic Center Control

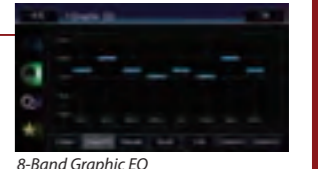
Unless a listener is perfectly centered in a car cabin, sound heard from some speakers will lag the sound heard from other speakers, resulting in unfocused soundstage and instable frequency characteristics. Sonic Center Control remedies this by adjusting frequency phase and acoustic characteristics by up to 15 steps, resulting in a clearer, focused soundstage.



Sonic Center Control

8-Band Graphic EQ

With Pioneer's 8-band graphic equalizer, you can customize the equalization levels to best match the acoustics of your car.



8-Band Graphic EQ

Advanced Sound Retriever

Hear more detail, warmth and clarity that the artist originally wanted you to hear from MP3, WMA and AAC files stored on your CD, USB Device, iPod/iPhone and portable media players. Pioneer's Advanced Sound Retriever technology benefits audio reproduction performance by restoring data (especially high-frequency data) that tends to get lost in the digital compression process.

Sound quality deterioration due to compressed audio file

Pure Sound!

When Advanced Sound Retriever is "ON", the high frequency range is compensated to match the frequency response curve of the original sound.

AVH-P6350BT

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" Touch Display, Built-in Bluetooth®, SD Memory Card Slot, and USB Direct Control for iPod/iPhone

AVH-P5350DVD

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" Touch Display, SD Memory Card Slot, and USB Direct Control for iPod/iPhone



Touch Panel Screen 7.0W LED MULTIPLE COLOR MULTI-LANGUAGE DISPLAY DVD VIDEO MP3 WMA AAC DIVX Bluetooth Made for iPod iPhone

DOLBY DIGITAL USB FM SD Dual Zone RCA Hi-VOLT 24bit Auto EQ Sonic Center Control WIRELESS REMOTE (INBT)

RDS SUPER TUNER III MOSFET 50W x 4 Back Up Camera Ready

Notes: Bluetooth Wireless Technology for AVH-P6350BT. Bluetooth adapter ready for AVH-P5350DVD.

Key Selling Points

- Point 1** Innovative Interface with High Response and Customizable Function make your car cabin more comfortable and enjoyable. Touch Panel Screen MULTIPLE COLOR
- Point 2** Reproduces DVD Video as well as compressed video format recordings contained in USB Device and SD Memory Card. DIVX USB SD
- Point 3** Experience superior in-car AV Performance with 7" display sizes, Dual Zone Video*, Auto EQ**, Sonic Center Control, 8-Band Graphic EQ and more. 7.0W iDual Zone Auto EQ Sonic Center Control

* Not compatible with AVH-5450DVD. ** CD-MC20 Required.

Common Main Features

- 7" Touch Panel Display with LED Backlight
- Multi-Language Display (Menu)
- Color Customization (5-Display Colors and 112-Key Colors)
- USB Direct Control for iPod/iPhone and USB Devices (USB Interface Cable for iPod/iPhone Required)
- App Mode
- Built-in Bluetooth Wireless Technology (Hands-Free Calling) (AVH-P6350BT)
- USB Port (Front)
- SD/SDHC Memory Card Slot
- Front AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player
- DivX/iTunes AAC/MP3/WMA/WAV Playback from CD/DVD/USB Device/SD Memory Card
- Dual Zone Audio/Video
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Hi-Volt Preouts x 3 (4 V)
- 8-Band Graphic EQ
- Auto EQ (CD-MC20 Required)
- Sonic Center Control
- Multi-Channel Processor Ready
- JPEG Slide Show
- Back-Up Camera Ready
- Rotary Volume Control
- Detachable Face Security™
- Wired Remote Input
- Display Off Mode
- RDS

Note: Text in blue indicates feature differentiation from other models. Please see pages 90 and 91 for accessories.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

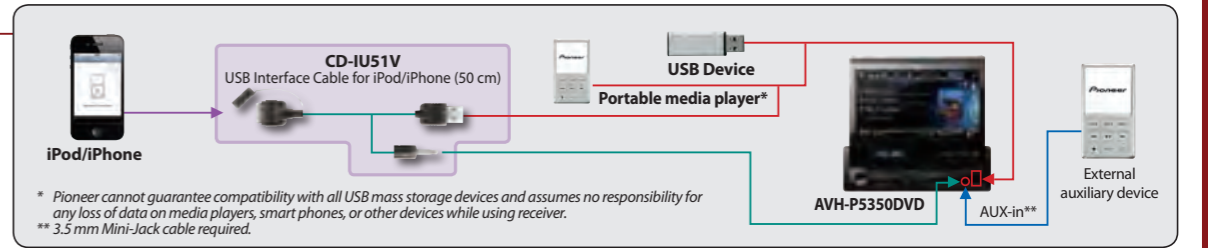
A Simpler, More Innovative Interface

Pioneer interface makes direct operation stress-free by eliminating complicated layered selection displays, so access to desired functions is smoother and simpler than ever. Various customization and JPEG slide show functions also make it easy to suit the mood.

Point 2

Versatile Connectivity

Various devices can be connected via built-in front AUX input, extending access to all the songs contained in iPod, iPhone and USB Devices.

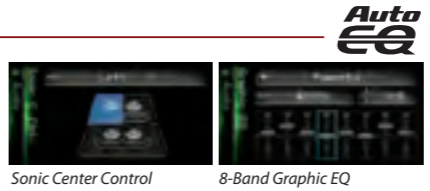


* Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver. ** 3.5 mm Mini-Jack cable required.

Point 3

Auto EQ*

Automatically tailors acoustics by fine-tuning frequency bandwidths plus front/rear speaker digital parametric equalization. Result: smooth sound full of subtle nuance and clarity.



Sonic Center Control

Adjusts frequency phase and acoustic characteristics by up to 15 steps for clearer, focused soundstage.

Advanced Sound Retriever

Restores sound quality and clarity to your highly compressed MP3, WMA and AAC files.

Please see page 17 for more details about Auto EQ, Sonic Center Control and Advanced Sound Retriever.

Other Point

Multi-Language Display

Pioneer AV receivers feature Multi-Language Display.

MULTI-LANGUAGE DISPLAY

Middle East Asia English/Arabic/Persian/Russian	Asia English/French/Thai/Chinese (Simplified)	Central America/Latin America/Oceania English/Thai/Spanish/Portuguese
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* Language differs according to region and is specifically indicated on packaging carton. Ask local distributor for details regarding any exceptions that may exist.

AVH-5450DVD

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" Touch Display, and Front USB Port

Touch Panel Screen 7.0W LED MULTIPLE COLOR MULTI-LANGUAGE DISPLAY DVD VIDEO MP3 WMA AAC DIVX DOLBY DIGITAL USB FM SD Dual Zone RCA Hi-VOLT 24bit Auto EQ Sonic Center Control WIRELESS REMOTE (INBT)

RDS SUPER TUNER III MOSFET 50W x 4 Back Up Camera Ready



Main Features

- 7" Touch Panel Display with LED Backlight
- Multi-Language Display (Menu)
- Color Customization (5-Display Colors and 112-Key Colors)
- USB Port (Front)
- SD/SDHC Memory Card Slot
- Front AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player
- DivX/iTunes AAC/MP3/WMA/WAV Playback from CD/DVD/USB Device/SD Memory Card
- Advanced Sound Retriever
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 8-Band Graphic EQ
- Auto EQ (CD-MC20 Required)
- Sonic Center Control
- JPEG Slide Show
- Back-Up Camera Ready
- Rotary Volume Control
- Detachable Face Security™
- Display Off Mode
- RDS

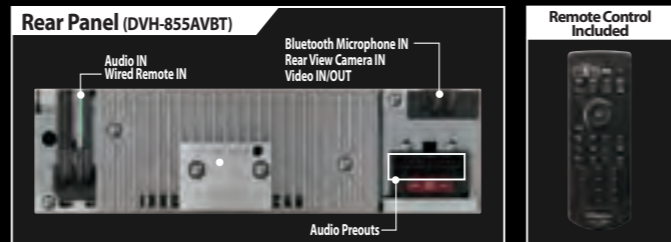
Please see pages 90 and 91 for accessories.

DVH-855AVBT NEW

DVD Receiver with 3.5" Color TFT Display, Built-in Bluetooth®, and USB Direct Control for iPod/iPhone

DVH-755AV NEW

DVD Receiver with 3" Color TFT Display, Front USB Port, and Front AUX-In



3.5W/3.0W*1 LED MULTI-LANGUAGE DISPLAY DVD VIDEO DVD-R/RW CD-R/RW MP3 WMA DIVX DOLBY DIGITAL Bluetooth Made for iPod iPhone

USB AUX IN 2 RCA PRE-OUTS Hi-VOLT*2 24bit DA Converter Specialized Audio Parts WIRELESS REMOTE IN PBT MOSFET 50Wx4 REMOVABLE FACE SECURITY Back Up Camera *2

Note: USB Direct Control for iPod/iPhone and Bluetooth Wireless Technology for DVH-855AVBT *1. 3.0-inch display: DVH-755AV *2. DVH-855AVBT

Key Selling Points

- Point 1** Bluetooth Wireless Technology enables hands-free calling. Enjoy wireless audio control and streaming. (DVH-855AVBT) Specialized audio parts carefully chosen for outstanding audio quality. (DVH-855AVBT)
- Point 2** Large built-in 3.5" (DVH-855AVBT) and 3" (DVH-755AV) color TFT displays provide excellent visibility and operability. **3.5W/3.0W**
- Point 3** In-car playback of DivX highly compressed digital video files from DVD and USB device. **DIVX DVD VIDEO USB**

Common Main Features

- Multi-Language Display (Menu/ID3 Tag) (English/Spanish/Portuguese)
- Front AUX Input (Audio/Video)
- DVD/CD Player
- DivX/MPEG-1, -2, -4/MP3/WMA/WAV Playback from CD/DVD/USB Device
- MOSFET 50 W x 4
- 3-Band Equalizer (Bass/Mid/Treble)
- JPEG Slide Show
- Rotary Volume Control
- Detachable Face Security™
- Display Off Mode

DVH-855AVBT Main Features

- 3.5" Color TFT Display with LED Backlight
- Dual Color (Red/Blue)
- USB Direct Control for iPod/iPhone and USB Devices (USB Interface Cable for iPod/iPhone Required)
- USB Port (Front: High Current 1A Handling Capability)
- Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
- Specialized Audio Parts
- Hi-Volt Preouts x 2 (4 V)
- Back-Up Camera Ready
- Wired Remote Input

DVH-755AV Main Features

- 3" Color TFT Display with LED Backlight
 - USB Port (Front)
 - RCA Preouts x 2 (2 V)
- Note: Text in blue indicates feature differentiation from other models. Please see pages 90 and 91 for accessories.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

Convenient, Easy Bluetooth® Wireless Functions DVH-855AVBT

- Hands-free calling (HFP) for safe driving
- Wireless Audio Streaming/Control (A2DP)

Electronic Parts for Superb Sound and Functions DVH-855AVBT NEW

Our engineers perform listening tests with expert care to incorporate specially designed parts that make for superior audio quality. Take Pioneer's new receiver. Its high-capacitance audio capacitor has particularly strong influence on audio signal input for higher performance sound reproduction.

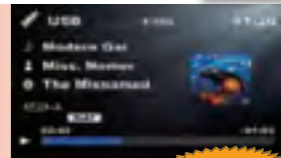
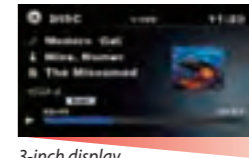
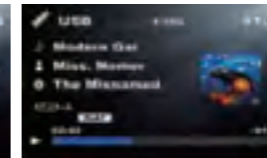
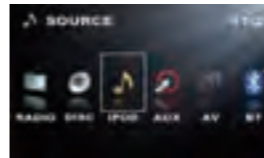


Point 2

Large Full Color TFT Display

- The DVH-855AVBT and DVH-755AV include a built-in full color TFT display with excellent visibility and comfortable functionality operable with a range of information.
- Having a display built into the front panel makes it easy to enjoy video.

3.5W/3.0W



Point 3

Versatile Connectivity

Versatile Multimedia Playback DivX playback from DVD and USB Devices



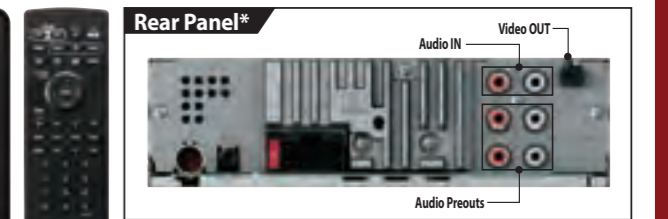
1A High Current USB Port DVH-855AVBT

The new receiver can supply 1.0A high current to a connected USB device to keep playback from the device stable, or quickly charge a connected smartphone.



DVH-345UB

DVD Receiver with Front USB Port, and Front AUX-In



* Rear panel configuration may vary depending on area.

LED DVD VIDEO DVD-R/RW CD-R/RW MP3 WMA AAC DIVX DOLBY DIGITAL USB AUX IN 2 RCA PRE-OUTS 24bit DA Converter WIRELESS REMOTE IN PBT RDS

SUPER TUNER III MOSFET 50Wx4 REMOVABLE FACE SECURITY

Main Features

- LCD Display with LED Backlight (10-Character)
- USB Port (Front)
- Front AUX Input (Audio)
- DVD/CD Player
- DivX/MPEG-1, -2, -4/iTunes AAC/MP3/WMA/WAV Playback from CD/DVD/USB Device
- Advanced Sound Retriever
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 3-Band Equalizer (Bass/Mid/Treble)
- Rotary Volume Control
- Detachable Face Security™
- Wired Remote Input
- RDS

Note: Please see pages 90 and 91 for accessories.

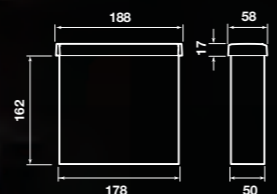
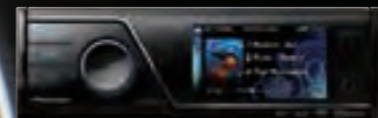
MVH-7350

Multimedia AV Receiver with 3" Color TFT Display, SD Memory Card Slot, and USB Direct Control for iPod/iPhone

MVH-8350BT

Multimedia AV Receiver with 3" Color TFT Display, Built-in Bluetooth®, SD Memory Card Slot, and USB Direct Control for iPod/iPhone

Bluetooth



3.0W **MP3** **WMA** **AAC** **DIWX** **USB** **SD** **Hi-VOLT** **24bit** **Auto EQ** **Sonic Center Control** **Rotary Commander** **Bluetooth** **Wired Remote** **RDS** **Super Tuner III** **MOSFET 50Wx4** **MADE IN JAPAN**

Bluetooth Made for iPod iPhone

Note: Bluetooth Wireless Technology for MVH-8350BT.

Key Selling Points

Point 1 New-generation Music Video Receivers are compatible with digital AV sources including iPod/iPhone, USB Devices and SD Memory Cards.

USB SD Made for iPod iPhone

Point 2 3" TFT display, Rotary Commander, new user interface and customizable menus provide fast, simple operation.

3.0W Rotary Commander

Point 3 Experience superior in-car AV Performance with Auto EQ*, Sonic Center Control, 8-Band Graphic EQ and more.

* CD-MC20 Required. Auto EQ Sonic Center Control

Main Features

- 3" Color TFT Display with LED Backlight
- Multi-Language Display (Menu) (English/Spanish/Portuguese/Russian)
- Color Customization [6-Display Colors (Blue/Violet/Red/Amber/Green/White) and 112-Key Colors]
- USB Direct Control for iPod/iPhone and USB Devices (CD-IU51V Required for iPod/iPhone)
- App Mode
- Built-in Bluetooth Wireless Technology (Hands-Free Calling) (MVH-8350BT)
- USB Port (Front)
- SD/SDHC Memory Card Slot
- Front AUX Input (Audio/Video)
- iTunes AAC/MP3/WMA/WAV Playback from USB Device/SD Memory Card
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Hi-Volt Preouts x 3 (4 V)
- 8-Band Graphic EQ
- Auto EQ (CD-MC20 Required)
- Sonic Center Control
- JPEG Slide Show
- 7-Way Rotary Commander
- Detachable Face Security™
- Wired Remote Input
- Display Off Mode
- RDS

Note: Text in blue indicates feature differentiation from other models.

Please see pages 90 and 91 for accessories.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

Easier Phone Calling — Bluetooth

3" full-color TFT display and new Parrot Bluetooth® module make hands-free calling operation very convenient. (MVH-8350BT)

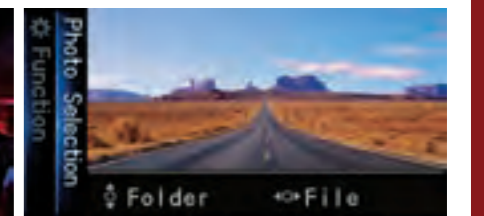


Video/JPEG Playback for Non-Stop Entertainment — DIWX JPEG

MVH features a 3" color display designed to take full advantage of all of your media. Play music videos and more from your iPod/iPhone, SD Memory Card or USB devices. Even display JPEG photos using the JPEG Slide Show feature.



Video File Playback

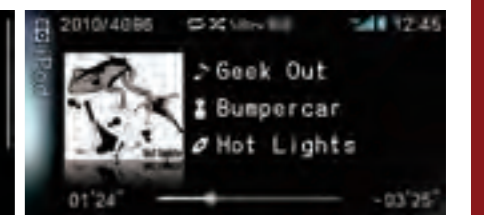
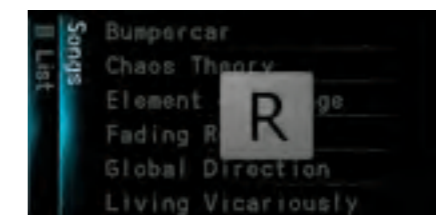


JPEG Slide Show

Simple Search for iPod

Quickly search your iPod/iPhone with alphabetical search by Song, Artist, Album or Genre categories.

Made for iPod iPhone

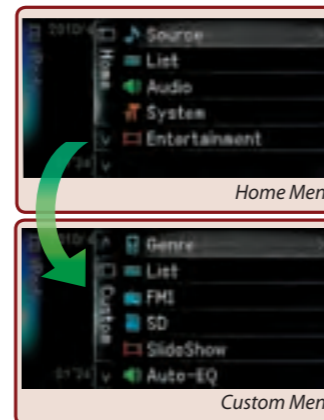


Point 2

Smart Interface for Quick Access

The new user interface has a minimalistic yet powerful design, and scales to accommodate modern media sources easily. The customizable home menu allows you to tailor your favorite features.

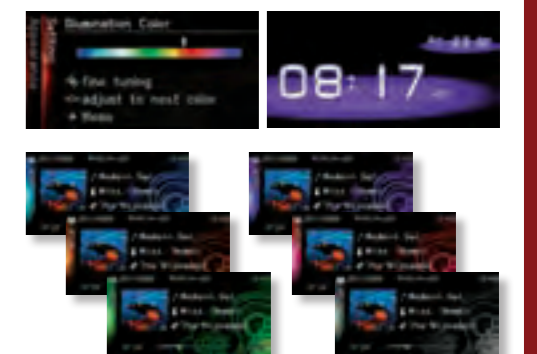
Access the Custom menu from the Home menu by pressing DOWN on the Rotary Commander. (Press UP to go back) To add items, browse the menus, then press & hold RIGHT to add that item to the Custom menu.



Rotary Commander allows you to easily toggle between the Home Menu and Custom Menu.

Customize Your Colors — MULTIPLE COLOR

The MVH-8350BT and MVH-7350 will accommodate your taste or mood. Select among 6 colors (Blue/Violet/Red/Amber/Green/White) for the display and 112 colors for key panel illumination.



Point 3

Auto EQ*

Automatically tailors acoustics by fine-tuning frequency bandwidths plus front/rear speaker digital parametric equalization. Result: smooth sound full of subtle nuance and clarity.

* CD-MC20 required



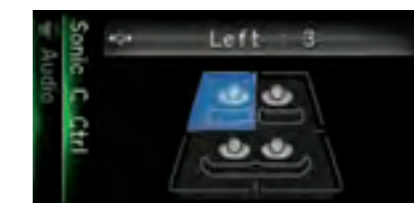
Sonic Center Control

Adjusts frequency phase and acoustic characteristics by up to 15 steps for clearer, focused soundstage.



Advanced Sound Retriever

Restores sound quality and clarity to your highly compressed MP3, WMA and AAC files.



Sonic Center Control



8-Band Graphic EQ

Please see page 17 for more details about Auto EQ, Sonic Center Control and Advanced Sound Retriever.



KEY FEATURES STEP-UP COMPARISON CHART

	Display	Preout	CD Player	Audio Format	AUX Input (Mini-Jack)	USB Interface ¹	Control for iPod/iPhone ²	SD/SDHC Memory Card Slot	Bluetooth ⁴	MIXTRAX ³ Flashing Color	Music Browser	Color Customization	Advanced Sound Retriever	Page Number
DEX-P99RS	Full Dot OEL 3-Line	4 (5V)	•	MP3 WMA AAC WAV	Front	Rear	•	•	With CD-BTB200	•	•	• ⁶	•	28
DEH-80PRS	Full Dot LCD 3-Line	3 (5V)	•	MP3 WMA AAC WAV	Front	Rear x 2	•	•	•	•	•	• ⁷	•	30
DEH-9450UB	Full Dot LCD 3-Line	3 (4V)	•	MP3 WMA AAC WAV	Rear	Rear x 2	•	•	•	•	•	• ⁷	•	32
DEH-X9550BT	Full Dot LCD 3-Line	3 (4V)	•	MP3 WMA AAC WAV	Front	Rear x 2	•	•	HFP A2DP AVRCP SPP	•	•	• ⁷	• ⁸	34
DEH-X9550SD	Full Dot LCD 3-Line	3 (4V)	•	MP3 WMA AAC WAV	Front	Rear x 2	•	•	•	•	•	• ⁷	•	34
DEH-X8550BT	Full Dot LCD 3-Line	3 (4V)	•	MP3 WMA AAC WAV	Front	Rear	•	•	HFP A2DP AVRCP SPP	•	•	• ⁷	• ⁸	36
DEH-X7550SD	Full Dot LCD 3-Line	3 (4V)	•	MP3 WMA AAC WAV	Front	Rear	•	•	•	•	•	• ⁷	•	36
DEH-X6550BT	VA LCD 2-Line (13 x 1 + Sub)	2	•	MP3 WMA WAV	Front	Front ²	•	•	HFP A2DP AVRCP	•	•	• ⁷	• ⁸	38
DEH-X3550UI	VA LCD 2-Line (13 x 1 + Sub)	2	•	MP3 WMA WAV	Front	Front ²	•	•	•	•	•	• ⁷	•	38
DEH-4550BT	LCD (12 x 1)	2	•	MP3 WMA WAV	Front	Front ²	•	•	HFP A2DP AVRCP	•	•	•	• ⁸	40
DEH-2550UI	LCD (12 x 1)	2	•	MP3 WMA WAV	Front	Front ²	•	•	•	•	•	•	•	40
DEH-1550UB DEH-1550UBG	LCD (12 x 1)	1	•	MP3 WMA WAV	Front	Front ²	•	•	•	•	•	•	•	41
DEH-155MP DEH-155MPG	LCD (12 x 1)	1	•	MP3 WMA WAV	Front	•	•	•	•	•	•	•	•	43
MVH-355BT	LCD (12 x 1)	1	•	MP3 WMA WAV	Front	Front ²	•	•	HFP A2DP AVRCP	•	•	•	• ⁸	44
MVH-155UI	LCD (12 x 1)	1	•	MP3 WMA WAV	Front	Front ²	•	•	•	•	•	•	•	44
FH-X755BT	VA LCD 2-Line (13 x 1 + Sub)	2	•	MP3 WMA WAV	Front	Front ²	•	•	HFP A2DP AVRCP	•	•	• ⁷	• ⁸	46
FH-X555UI	VA LCD 2-Line (13 x 1 + Sub)	2	•	MP3 WMA WAV	Front	Front ²	•	•	•	•	•	• ⁷	•	46
DXT-1569UB DXT-156UB	LCD (12 x 1)	1	•	MP3 WMA WAV	Front	Front ²	•	•	•	•	•	•	•	48

• For Flashing Color. • For Color Customization.

*1. Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.
 *2. Please use CD-US0E USB extension cable if a direct connection causes a USB device to protrude from the receiver in a way that can interfere with driving.
 *3. Compatibility with unit depends on iPod generation. Requires use of CD-IU51.
 *4. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile (version 1.3), SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.
 *5. Works with music from iPod, SD/SDHC memory card and USB device.
 *6. 125 colors. Key illumination only.
 *7. 210,000 colors (separated). Colors for key illumination and display are separately adjustable.
 *8. Also available for Bluetooth Wireless Audio.

See page 93 for in-depth information on features.



MIXTRAX

MIXTRAX

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.



MIXTRAX EZ

- DEH-X9550BT DEH-X9550SD DEH-X8550BT DEH-X7550SD
- DEH-X6550BT DEH-X3550UI FH-X755BT FH-X555UI

New Pioneer Audio Receivers are compatible with MIXTRAX EZ for quick and easy Non-Stop MIX Play without using MIXTRAX software.

Short Playback Mode

- DEH-X9550BT DEH-X9550SD DEH-X8550BT DEH-X7550SD
- DEH-X6550BT DEH-X3550UI FH-X755BT FH-X555UI

Select length of playback to shorten track selections and speed up switching to following tracks in the mix.



Sound Level Indicator

- DEH-X9550BT DEH-X9550SD
- DEH-X8550BT DEH-X7550SD

Sound Level Indicator displays sound levels as visualized waveforms as a DJ mixer does.



Flashing Color*

- DEH-X9550BT DEH-X9550SD DEH-X8550BT DEH-X7550SD
- DEH-X6550BT DEH-X3550UI FH-X755BT FH-X555UI

Livens up the cabin with light pulsing to the beat of the music.

* Can be switched on or off as desired.



Sound

Illumination and Beat in Sync

Color

- Sound Level Mode synchronizes with sound signal level.
- Low Pass Mode synchronizes with bass sound.

Choose among six lighting color patterns for both Sound Level Mode (volume) and Low Pass Mode (bass). Colors vary according to levels.

Key illumination and display pulse to the beat of the music When MIXTRAX is on, illumination color changes for the mode that has been selected and set.

Sound Level Mode	Sound Volume	Low Pass Mode	Bass Sound
RED	High	RED	Large
PINK		PINK	
LAVENDER		LAVENDER	
INDIGO		INDIGO	
SKY BLUE		OCEAN BLUE	
OCEAN BLUE		BLUE	
BLUE	Low	BLUE	Small

Auto Flap Face

- DEX-P99RS DEH-9450UB

Highly functional, high-quality face panel design features a smoothly motorized auto flap.



Bluetooth®

- DEH-X9550BT DEH-X8550BT DEH-X6550BT DEH-4550BT MVH-355BT FH-X755BT

Bluetooth Wireless Technology makes hands-free operation comfortable and safe while driving.



Dual USB Ports

- DEH-80PRS DEH-9450UB DEH-X9550BT DEH-X9550SD

More connectivity adds more convenience and utilities.



Lever Key

- DEH-80PRS DEH-9450UB DEH-X9550BT DEH-X9550SD DEH-X8550BT DEH-X7550SD

Gives a driver more assured operability and smoother control of various functions and settings.



App Available (App Source/App Mode)

All Receivers Compatible with iPod (except DEX-P99RS)

Allows a passenger to use iPod apps while the audio from the application is played through your car's speakers. App Source boots up as a music source for quicker access to iPod and iPhone app control.

Apps in Your Car

Control for Android Devices with CarMediaPlayer App

- DEH-X9550BT DEH-X8550BT

Extend your choices in car entertainment by connecting a compatible Android phone to the audio receiver to control CarMediaPlayer.



Separated Color Customization

- DEH-80PRS DEH-9450UB DEH-X9550BT DEH-X9550SD DEH-X8550BT
- DEH-X7550SD DEH-X6550BT DEH-X3550UI FH-X755BT FH-X555UI

Lets user match a receiver to car cabin and dash.

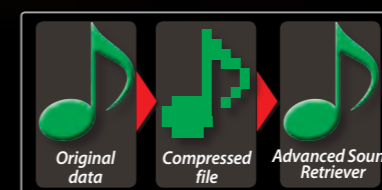


Matches Any Car Illumination!



Advanced Sound Retriever

Reproduces high-quality sound from compressed digital audio files and Bluetooth wireless audio streams.



Pure Sound!

DEX-P99RS

Audio Receiver with Sound Master Clock Circuit, High-Performance DSP, and USB Port with Digital Direct Signal Transmission



MULTI-LANGUAGE DISPLAY MP3 WMA AAC Hi-VOLT

DSP AUTO FLAP SUPER TUNER III

Key Selling Points

Point 1 Devices and materials carefully selected according to the highest standards to achieve the ultimate in sound quality.

Point 2 L/R Independent 4-Way Crossover, 31-Band L/R Independent EQ and 0.77 cm step Auto Time Alignment help optimize sound field in greater detail.

Point 3 Built-in USB port allows transmission of digital signals from a connected iPod, iPhone or USB Device to DSP for high-quality sound reproduction.

Main Features

- Full Dot OEL Display (192 x 48 Pixels, 3-Line)
- 125-Color Button Illumination
- Bluetooth® Adapter Ready (CD-BTB200 Required)*
- USB Direct Control for iPod/iPhone and USB Devices with Digital Direct Signal Transmission (CD-IU51 Required for iPod/iPhone)
- AUX** Input (Front)
- iTunes AAC/MP3/WMA/WAV Playback
- Advanced Sound Retriever
- Hi-Volt Preouts x 4 (5V)
- Built-in DSP with Dual (L/R) 31-Band GEQ
- Auto EQ and Auto Time Alignment
- Multi-Language Display (English/Spanish/Portuguese)
- 7-Way Rotary Commander
- Steering Wheel Remote Control
- Sound Master Clock Circuit
- High-Performance 32-Bit Floating Point DSP
- 24-Bit AKM DACs
- Detachable Face Security™
- Display Off Mode
- Door Mute

* External control of IP-Bus Bluetooth Adapter has some limitations. Please consult owner's manual or Pioneer sales representative for more information.
** Use a 2.5 mm diameter mini-jack to connect to the AUX input while the Auto-Flap Motorized Face is at open position.

CD-IU51

USB Interface Cable for iPod/iPhone (50 cm)



iPod/iPhone Operable with Pioneer Receivers

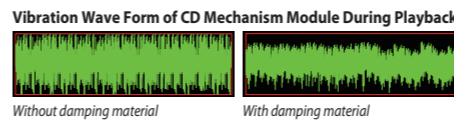
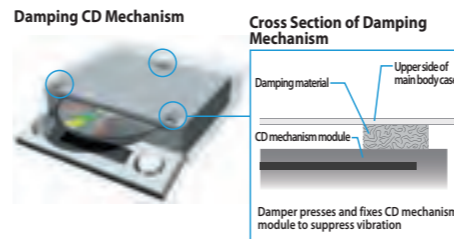
- Made for
- iPhone 4
 - iPhone 3GS
 - iPhone 3G
 - iPhone
 - iPod touch (1st, 2nd, 3rd, and 4th generation)
 - iPod classic
 - iPod with video
 - iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

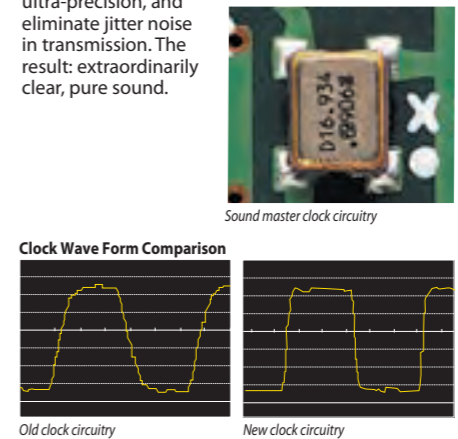
High-Performance Damping Material and Mechanism

To pick up digital signals recorded on CDs with superior precision, new damping mechanism and material firmly press and fix the entire CD mechanism module — effectively absorbing and dispersing vibration caused by CD rotation.



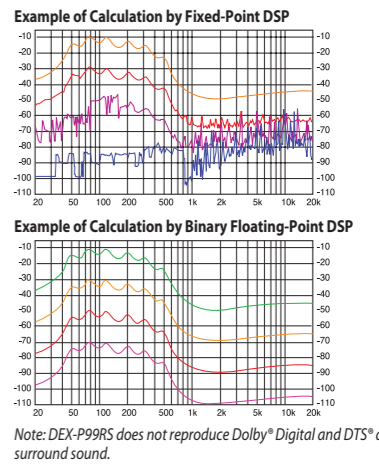
New High-Precision Sound Master Clock Circuitry

The latest integrated circuits require superior clock signal quality to handle digital data accurately without distortion at ever-higher speeds. New Sound Master Clock Circuitry in the DEX-P99RS generates clock waveforms to read and process digital signals with ultra-precision, and eliminate jitter noise in transmission. The result: extraordinarily clear, pure sound.



32-Bit Binary Floating-Point DSP

The DEX-P99RS incorporates 32-Bit Binary Floating-Point DSP for high-precision sound processing and tuning without degrading digital signals from their sources.



Note: DEX-P99RS does not reproduce Dolby® Digital and DTS® digital surround sound.

Point 2

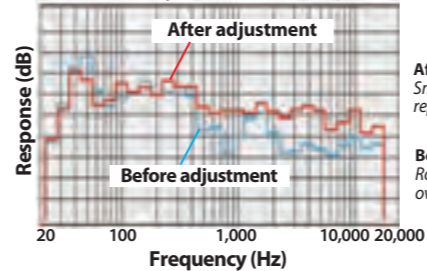
Auto Time Alignment and Auto EQ

Time alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker sound output timing accordingly by 0.77 cm differences, so that sound from all speakers reaches the driver's ears in perfect sync. Auto EQ tailors specific musical characteristics according to taste, uses a microphone to monitor and analyze acoustics, then automatically fine-tunes all frequency bandwidths and front and rear speaker digital parametric equalization. These entire processes occur in 543 seamless steps in just about 5 minutes.



Microphone for Auto EQ frequency band fine-tuning
Microphone jack is under front panel (DEH-P80RSII)
Time Alignment Image Digital delay processing makes all speakers sound as if they are virtually equidistant from the listener, for a clearer, front-focused soundstage.

Auto EQ Adjustment Example



After adjustment: Smooth response with subtle nuances reproduced clearly.

Before adjustment: Rough frequency response curve; unclear overall sound.

For smoother low- to high-range sound.

4-Way Digital Network

To let listeners keep transitions between frequency ranges sounding smooth, the DEX-P99RS features a 4-Way Digital Network that lets you adjust Cutoff Frequency, Cutoff Slope, Level and Phase for any of four (high, mid, low and subwoofer) frequency ranges. Moreover, the adjustments for left and right channels can be made independently of each other. The result: more distinct separation of the four frequency ranges and fuller, more natural sound, with each speaker reaching its full potential as part of a multi-speaker system.



4-Way Digital Network					
Network	L/R Independent Network	Cutoff Frequency (Hz)	Cutoff Slope	Level	Phase (Normal/Reverse)
High (HPF)	800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	-6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	0 to -24 dB/ MUTE (1 dB step)	○
				0 to -24 dB/ MUTE (1 dB step)	○
Mid (LPF)	25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	0 to -24 dB/ MUTE (1 dB step)	○
				0 to -24 dB/ MUTE (1 dB step)	○
Mid (HPF)	20/25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	20/25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	0 to -24 dB/ MUTE (1 dB step)	○
				0 to -24 dB/ MUTE (1 dB step)	○
Low (LPF)	25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+6 to -24 dB/ MUTE (1 dB step)	○
				+6 to -24 dB/ MUTE (1 dB step)	○
Low (HPF)	20/25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	20/25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+6 to -24 dB/ MUTE (1 dB step)	○
				+6 to -24 dB/ MUTE (1 dB step)	○
SW (LPF)	25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+6 to -24 dB/ MUTE (1 dB step)	○
				+6 to -24 dB/ MUTE (1 dB step)	○

Point 3

- Digital signal is directly transferred to DSP for high-quality sound reproduction from USB device and iPod.
- 125-Color Button Illumination offers choice of colors to closely match the illumination of various dashboard displays.
- Automatically mutes sound from source being played as a car window or door are being opened or closed.

DEH-80PRS

Audio Receiver for Entering the World of High-Quality Car Audio



FULL DOT LCD **Separated Color DISPLAY** **MULTI-LANGUAGE DISPLAY** **MP3 WMA AAC** **CD-R/RW** **24bit DA Converter** **Dual USB** **Made for iPod iPhone**
DSP **FLAP FACE** **Anti-Dust Cover** **WIRELESS REMOTE IN/PT** **RDS SUPER TUNER III D** **MOSFET 50Wx4** **RETACHABLE FACE SECURITY** **Music Browser**

Key Selling Points

- Point 1** Devices and materials carefully selected according to the highest standards to achieve the ultimate in sound quality.
- Point 2** Pioneer's exclusive sound field technologies including Auto EQ and Auto Time Alignment help optimize audio in ways that perfectly suit particular listening spaces and allow subtle manual control of settings.
- Point 3** Versatile connectivity helps deliver exceptional sound quality from various digital devices.

Main Features

- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi Language Display (English/Spanish/Portuguese)
- Separated Color Customization (More than 210,000 Colors)
- SD/SDHC Memory Card Slot
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Dual USB Ports (Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- 3-Way Digital Network
- DSP with Dual (L/R) 16-Band GEQ
- Auto EQ and Auto Time Alignment
- Exclusively Designed Audio Parts
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- RDS
- Hi-Volt Preouts x 3 (5V)
- Flap Face
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Aluminum Rotary Volume Knob
- Card Remote Control

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Note: Text in blue indicates feature differentiation from other models.

Point 1

High Performance Burr-Brown 24-bit Advanced Segment D/A Converter x 3

Incorporation of three circuit boards for each of high, mid and low frequency ranges make for exceptional linear sound reproduction with wide dynamic range and low distortion of original sources.



Four-Layer Circuit Board Design

Uses four-layer copper foil, and parts are set by reflow mounting to both sides of the circuit board. A more highly integrated parts layout makes the circuit board significantly more compact than a conventional one. Ground and power supply patterns are mainly used in the inside layer and the lower impedance as a result greatly reduces noise.



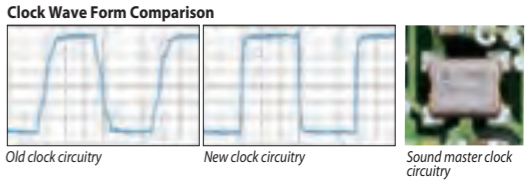
Full-Custom High-Capacitance Power Supply Capacitor

Stabilizes power supply to keep sound clear and consistent. Original parts are developed and tuned for optimal sound quality through close examination of materials and repeated listening trials.



Sound Master Clock Circuitry

Generates clock waveforms to read and process digital signals with extraordinary precision to eliminate jitter (digital signal time axis fluctuation noise). Very fine signals can be accurately reproduced.



Point 2

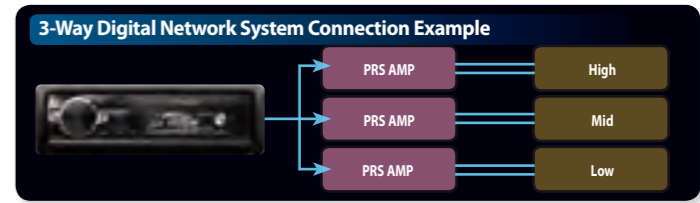
28-bit Binary Floating-Point DSP

Handling of a wider range of complicated calculations than fixed-point DSP and use of advanced programming technology allows for this high-precision sound processing and tuning without source digital signal degradation.



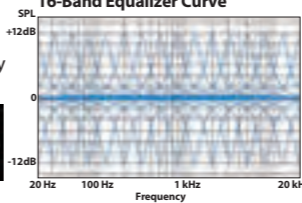
3-Way Digital Network Mode

The DEH-80PRS lets user switch to "network mode" for a 3-Way Digital Network, connecting (via three preouts) up to three external amplifiers, dedicated to driving high-, mid- and low-frequency ranges, respectively. The result: more distinct separation of the three frequency ranges, for more full, natural sound realizing more of each speaker's potential in a multi-speaker system.



L/R Independent 16-Band Digital Equalizer

Incorporates L/R Independent 16-Band Digital Equalizer excellent at correcting frequency characteristics distortion. Makes full, fine adjustment by each 2/3 octave to realize ideally flat sound characteristics in any type of car.



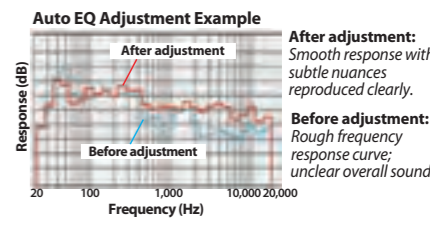
Time Alignment

Not only can this function precisely adjust each speaker's output timing according to its distance from the listening position in 1.25 cm increments – it is also adaptable to a 3-way multi-amplifier and speaker system.



Auto Time Alignment and Auto EQ

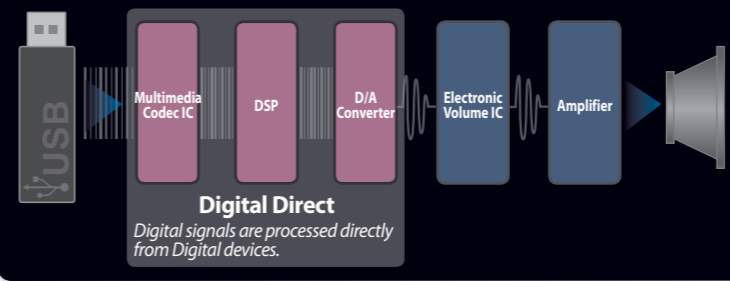
Time alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker sound output timing accordingly by 0.77 cm differences, so that sound from all speakers reaches the driver's ears in perfect sync. Auto EQ tailors specific musical characteristics according to taste, uses a microphone to monitor and analyze acoustics, then automatically fine-tunes all frequency bandwidths and front and rear speaker digital parametric equalization. These entire processes occur in 399 seamless steps in just about 6 minutes and 30 seconds.



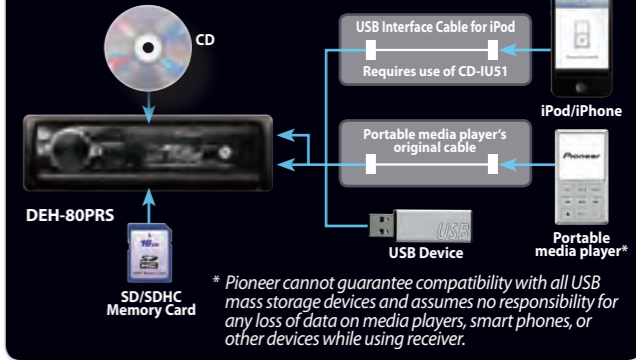
Point 3

Direct Digital Transfer for Superior Compressed Audio File Sound Quality

Musical signals recorded in an iPod, USB device and SD memory card are directly transferred to a DSP as digital signals and processed so that quality of sound using these digital devices is excellent.



Connection Example for USB Devices, SD Memory Card and External Auxiliary Device



* Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.

DEH-9450UB

Audio Receiver with Dual USB Ports, USB Direct Control for iPod/iPhone, and Auto Flap Face



FULL DOT LCD Separated Color MULTI-LANGUAGE DISPLAY CD-R/RW MP3 WMA AAC AUX IN RCA (Pre-outs) Hi-VOLT Subwoofer control 24bit DA Converter Dual USB Made for iPod iPhone
 Specialized Audio Parts AUTO FLAP Anti-Dust Design RDS SUPER TUNER III MOSFET 50W x 4 REMOTE CONTROL Music Browser

Key Selling Points

- Point 1** Highly functional, high-quality face panel design features a smoothly motorized auto flap and clear front interface.  FULL DOT LCD
- Point 2** Specialized audio parts carefully chosen for outstanding audio quality. 
- Point 3** Music Browser for faster, simpler song search and selection. 

Main Features

- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi Language Display (English/Spanish/Portuguese)
- Separated Color Customization (More than 210,000 Colors)
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Dual USB Ports (Rear: High Current 1A Handling Capability)
- AUX Input (Rear)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- Specialized Audio Parts
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- RDS
- Hi-Volt Preouts x 3 (4V)
- 5-Band Graphic EQ
- Auto Flap Face
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

Note: Text in blue indicates feature differentiation from other models.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

Elegantly Functional Face

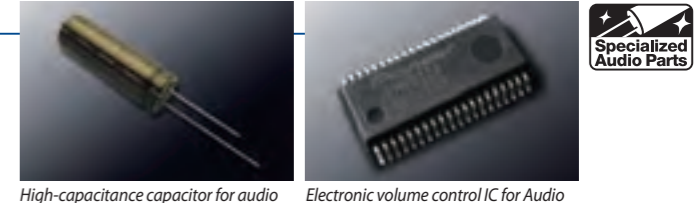
Highly functional, high-quality face panel design features a smoothly motorized auto flap and clear front interface.



Point 2

Specialized Audio Parts

Our engineers perform listening tests with expert care to incorporate specially designed parts that make for superior audio quality. Take Pioneer's new receiver. Its high-capacitance audio capacitor has particularly strong influence on audio signal input for higher performance sound reproduction. Audio control functions like 5-band GEQ and LPF/HPF take advantage of electronic circuitry that improves sound quality and minimizes analog signal degradation.



Point 3

Music Browser

With so many selections filling your USB device, why can't it be easy to find the music you want in an instant? With a conventional system, files are not displayed alphabetically, making it difficult to search for a song. But Pioneer's built-in Music Browser function automatically lists those tunes alphabetically, using audio file tag information, by Artist, Album, Song or Genre. Alphabetical search makes it especially quick and convenient to get what you want to hear from a big archive of tunes.

Conventional
No alphabetical song search. Folder and Song file appear in the same layer.

```

Menu Tree
- Song
- Folder name 1
  - Folder name 1 - Song 1
  - Folder name 2 - Song 2
- Folder name 2
  - Folder name 2 - Song 3
                
```

Song and Folder appear in the same layer

Not in alphabetical order


Music Browser
Lists by Artist, Album, Song or Genre in alphabetical order.

```

Menu Tree
- Artists
  - All
  - Artist 1
  - Artist 2
- Albums
  - All
  - Album 1
  - Album 2
- Songs
  - Song 1
  - Song 2
  - Song 3
- Genre
                
```

Speedy access to desired song

* All in easy-to-find alphabetical order



Music Browser

Alphabetical Search
This function helps you find and access a tune quickly by its initial title letter.

Other Points

Full Dot 3-Line LCD Display 

The Full Dot LCD Display allows you to scroll through your iPod with greater ease, displaying up to three lines in list mode.

Separated Color Customization 

Separated Color Customization lets the user match their receiver illumination to their interior lighting. Color of key illumination and display can be selected separately.

Smooth, Sure Operability 

For the sake of safety, a new horizontally laid out lever gives a driver more assured operability and smoother control of various functions and settings.

Advanced Sound Retriever

Advanced Sound Retriever reproduces high-quality sound from compressed digital audio files.





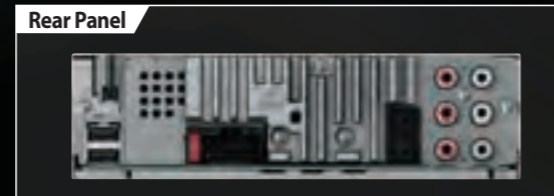
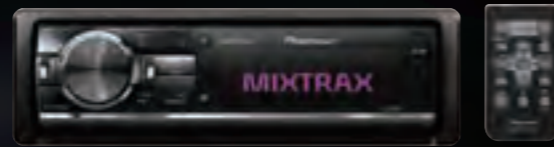
Pure Sound!

Over 210,000 Colors!

Matches Any Car Illumination!

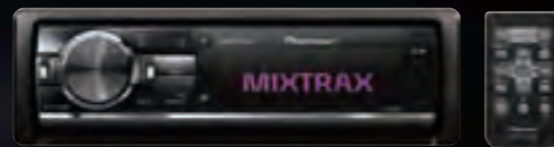
DEH-X9550BT NEW

Audio Receiver with MIXTRAX, Bluetooth® for Hands-Free Calling/ Wireless Audio, Dual USB Ports, USB Direct Control for iPod/iPhone, and Flap Face



DEH-X9550SD NEW

Audio Receiver with MIXTRAX, Dual USB Ports, USB Direct Control for iPod/iPhone, and Flap Face



Note: "Control for Android Devices with CarMediaPlayer App", "Bluetooth Wireless Technology" and "Voice Control" for DEH-X9550BT.

Key Selling Points

Point 1 Finely detailed Full Dot 3-Line LCD display features flap face with sleek, elegant design. **FULL DOT LCD FLAP FACE**

Point 2 Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. Cool Flashing Color livens up the cabin with light pulsing to the beat of the music. **MIXTRAX**

Point 3 Smartphone compatibility lets you play music stored in an iPod, iPhone or Android phone through your car audio system. Dual USB Ports with 1A high current handling capability enable connections to various digital devices.

Made for iPod iPhone Smartphone Compatible

Dual USB 1A

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi Language Display (English/Spanish/Portuguese)
- Separated Color Customization (More than 210,000 Colors)
- SD/SDHC Memory Card Slot
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Dual USB Ports (Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- Specialized Audio Parts
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III/D
- RDS
- Hi-Volt Preouts x 3 (4 V)
- 5-Band Graphic EQ
- Flap Face
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

DEH-X9550BT Main Features

- Control for Android Devices with CarMediaPlayer App
- Bluetooth for Hands-Free Calling & Wireless Audio
- Voice Control for iPhone
- Advanced Sound Retriever for Bluetooth Wireless Audio

Note: Text in blue indicates feature differentiation from other models.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

Flap Face Design — FLAP FACE

The CD slot is concealed behind the front panel flap, so the receiver's face looks extra-sleek and elegant.



Full Dot 3-Line LCD Display — FULL DOT LCD

A finely detailed full dot 3-line LCD display improves visibility when controlling and monitoring various operations.

Point 2

MIXTRAX NEW

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

MIXTRAX EZ for Quick Non-Stop MIX Play
Tracks are joined by various random sound effects in Non-Stop MIX Play, and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

Short Playback Mode
You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.

Sound Level Indicator
Like a DJ mixer, Sound Level Indicator displays sound levels as visualized waveforms.



Flashing Color*
As MIXTRAX begins, lights starts pulsing to the beat of the music, creating a mood-enhancing dance club-like lighting effect.

FLASHING COLOR

* Can be switched on or off as desired.



Point 3

Dual USB Ports

More connectivity adds more convenience and utilities. For example, you can listen to music from a USB device while charging your smartphone.



App Source for iPhone

- Use music apps stored in your iPod or iPhone for listening through the car speakers.
- Fast forward and reverse can be operated through the receiver.
- App Source boots up as a music source for quicker access to iPod and iPhone app control.

Note: Not all apps will be compatible with App Source, which will provide limited, if any, control over the app.



Built-in Bluetooth® for Safety and Convenience — DEH-X9550BT

- Bluetooth hands-free (HFP) function is easy enough to operate safely while driving.
- Using "wireless audio" control and streaming (A2DP), you can control and listen to a compatible audio player on your receiver and view tag information on the receiver display.
- Secure Simple Pairing (SSP) allows more simple phone pairing without PIN code input.



Other Points

Music Browser

Using audio file tag information, Pioneer's built-in Music Browser automatically lists tunes alphabetically by Artist, Album, Song or Genre. Alphabetical search makes it fast and easy to access whatever tune you want from a big archive.



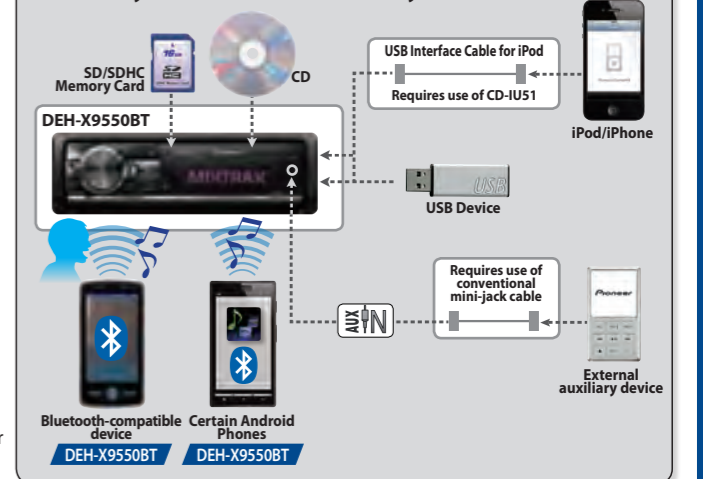
Electronic Parts for Superb Sound and Functions

Electronic Volume Control
For multifunctional control of high quality sound from the digital-to-analog converter (DAC) with minimal analog signal degradation.



Electronic volume control IC for Audio

Connection Example for USB Devices, SD Memory Card and External Auxiliary Device



Separated Color Customization — Separated Color

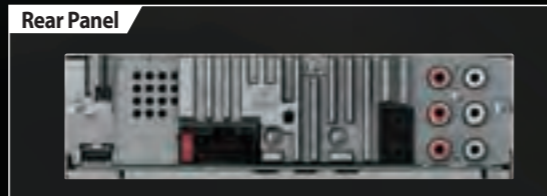
Separated Color Customization lets the user match their receiver illumination to their interior lighting. Color of key illumination and display can be selected separately.



Over 210,000 Colors!

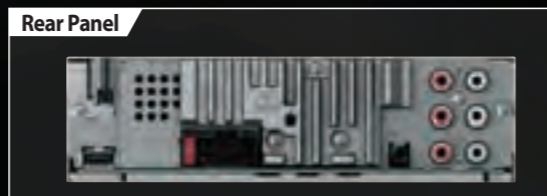
DEH-X8550BT NEW

Audio Receiver with MIXTRAX, Bluetooth® for Hands-Free Calling/ Wireless Audio, and USB Direct Control for iPod/iPhone



DEH-X7550SD NEW

Audio Receiver with MIXTRAX, and USB Direct Control for iPod/iPhone



Note: *Control for Android Devices with CarMediaPlayer App*, "Bluetooth Wireless Technology" and "Voice Control" for DEH-X8550BT.

Key Selling Points

Point 1 Simple, seamless music connection makes it quick and easy to enjoy Non-Stop Mix Play. Cool Flashing Color livens up the cabin with light pulsing to the beat of the music. **MIXTRAX**

Point 2 Music Browser for faster, simpler song search and selection. **Music Browser**

Point 3 Finely detailed Full Dot 3-Line LCD display makes more information more visible. **FULL DOT LCD**

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi Language Display (English/Spanish/Portuguese)
- Separated Color Customization (More than 210,000 Colors)
- SD/SDHC Memory Card Slot
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- Specialized Audio Parts
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- RDS
- Hi-Volt Preouts x 3 (4 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Note: Text in blue indicates feature differentiation from other models.

Point 1

MIXTRAX NEW

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

MIXTRAX EZ for Quick Non-Stop MIX Play
Tracks are joined by various random sound effects in Non-Stop MIX Play, and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

Short Playback Mode
You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.

Sound Level Indicator
Like a DJ mixer, Sound Level Indicator displays sound levels as visualized waveforms.

Flashing Color*
As MIXTRAX begins, lights starts pulsing to the beat of the music, creating a mood-enhancing dance club-like lighting effect.

* Can be switched on or off as desired.



FLASHING COLOR



CAR DJ!

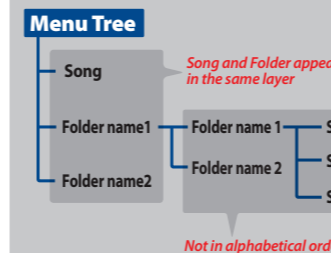
Point 2

Music Browser

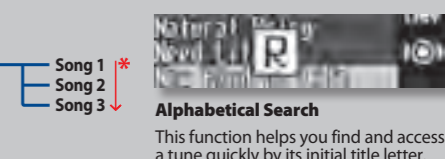
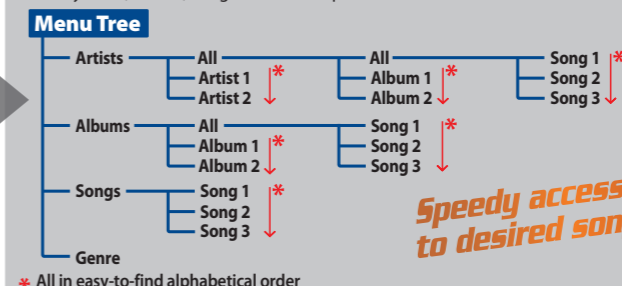
Using audio file tag information, Pioneer's built-in Music Browser automatically lists tunes alphabetically by Artist, Album, Song or Genre. Alphabetical search makes it fast and easy to access whatever tune you want from a big archive.



Conventional
No alphabetical song search. Folder and Song file appear in the same layer.



Music Browser
Lists by Artist, Album, Song or Genre in alphabetical order.



Alphabetical Search
This function helps you find and access a tune quickly by its initial title letter.

Speedy access to desired song

Point 3

Full Dot 3-Line LCD Display

A finely detailed full dot 3-line LCD display improves visibility when controlling and monitoring various operations.



FULL DOT LCD

Other Points

Built-in Bluetooth® for Safety and Convenience DEH-X8550BT

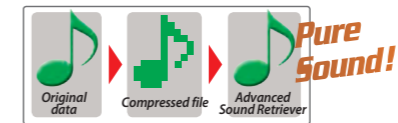


Advanced Sound Retriever

Advanced Sound Retriever reproduces high-quality sound from compressed digital audio files.

Support Bluetooth Audio NEW
Advanced Sound Retriever also improves the sound of Bluetooth wireless audio streams*.

* Available in DEH-X8550BT compatible with Bluetooth wireless audio streaming.



Voice Control for iPhone NEW DEH-X8550BT

With the voice control function of an iPhone, you can simply speak a command to make a call, and select a music track.



Smartphone Compatibility DEH-X8550BT DEH-X7550SD DEH-X8550BT

Made for iPod iPhone Smartphone Compatible

DEH-X6550BT NEW

Audio Receiver with MIXTRAX, Bluetooth® for Hands-Free Calling/Wireless Audio, and USB Direct Control for iPod/iPhone

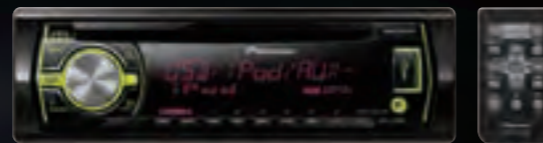


Rear Panel



DEH-X3550UI NEW

Audio Receiver with MIXTRAX, and USB Direct Control for iPod/iPhone



Rear Panel



Note: "Bluetooth Wireless Technology" and "Voice Control" for DEH-X6550BT.

Key Selling Points

- Point 1** Simple, seamless music connection makes it quick and easy to enjoy Non-Stop Mix Play. Cool Flashing Color livens up the cabin with light pulsing to the beat of the music. **MIXTRAX**
- Point 2** Color Customization lets user match a receiver to car cabin and dash. **Separated Color**
- Point 3** Large VA LCD display with 2-line text provides superior visibility and contrast throughout a wide viewing angle range. **VA LCD**

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Separated Color Customization (More than 210,000 Colors)
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50W x 4
- Supertuner® III/D
- Shortwave Tuner
- RDS
- RCA Preouts x 2 (2V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control

DEH-X6550BT Main Features

- Bluetooth for Hands-Free Calling & Wireless Audio
- Voice Control for iPhone
- Advanced Sound Retriever for Bluetooth Wireless Audio

Note: Text in blue indicates feature differentiation from other models.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

MIXTRAX NEW

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

- **MIXTRAX EZ for Quick Non-Stop MIX Play**
Tracks are joined by various random sound effects in Non-Stop MIX Play, and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.
- **Short Playback Mode**
You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.
- **Flashing Color***
As MIXTRAX begins, lights starts pulsing to the beat of the music, creating a mood-enhancing dance club-like lighting effect.

* Can be switched on or off as desired.

FLASHING COLOR



Point 2

Separated Color Customization

Separated Color Customization lets the user match their receiver illumination to their interior lighting. Color of key illumination and display can be selected separately.

Over 210,000 Colors!

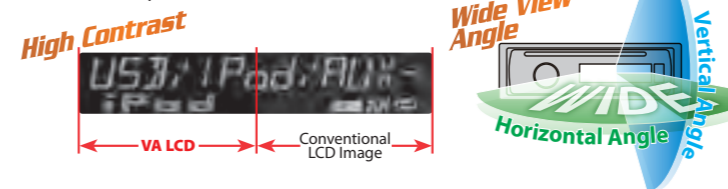
Matches Any Car Illumination!

Separated Color

Point 3

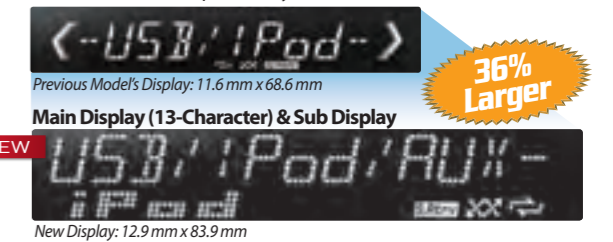
VA LCD NEW

The receiver display incorporates VA LCD for higher contrast and visibility from a wide viewing angle. Characters on display are easy to read from the driver's viewpoint.



Larger 2-Line Display

The larger 2-line display improves visibility and incorporates finely balanced font to keep text easy to read.



Other Points

App Mode for iPhone

- Use music apps stored in your iPod or iPhone for listening through the car speakers.
- Fast forward and reverse can be operated through the receiver.

Note: Not all apps will be compatible with App Mode, which will provide limited, if any, control over the app.



5-Band Graphic EQ NEW

5-Band Graphic Equalizer allows more precise adjustment of acoustic settings to suit the car's interior conditions, your personal preferences and the sound mood that you seek.



Built-in Bluetooth® for Safety and Convenience

- Bluetooth hands-free (HFP) function is easy enough to operate safely while driving.
- Using "wireless audio" control and streaming (AVRCP, A2DP), you can control and listen to a compatible audio player on your receiver and view tag information on the receiver display.
- Secure Simple Pairing (SSP) allows more simple phone pairing without PIN code input.



Advanced Sound Retriever

Hear the detail, warmth and clarity, the way the artist intended it, from all of your highly compressed MP3 and WMA files stored on USB device, iPod and portable media players. By restoring data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.

Support Bluetooth Audio NEW

Advanced Sound Retriever also improves the sound of Bluetooth wireless audio streams*.

* Available in DEH-X6550BT compatible with Bluetooth wireless audio streaming.

DEH-4550BT NEW

Audio Receiver with Bluetooth® for Hands-Free Calling/Wireless Audio, and USB Direct Control for iPod/iPhone



MP3 WMA Subwoofer control RDS Made for

MOSFET 50Wx4

Key Selling Points

- Point 1** Built-in Bluetooth allows hands-free calling for driving safety. Tag information is displayed while music plays via Bluetooth wireless audio.
- Point 2** With voice control for iPhone, just say a command to make a call, and select a music track.

DEH-1550UB/DEH-1550UBG NEW

Audio Receiver with Front USB Port



MP3 WMA Subwoofer control RDS

Key Selling Point

- Point 3** 1A high current supply to a connected USB device keeps playback from the device stable and quickly recharges connected digital devices.

Common Key Selling Points

- Point 4** Small dots of light in the 12-character display enhance visibility with fine detail.
- Point 5** Advanced Sound Retriever reproduces high-quality sound from compressed digital audio files. 5-Band Graphic EQ lets you enhance acoustic settings and mood as desired.

Common Main Features

- CD Player
- LCD Display (12-Character)
- LED Backlight
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control

DEH-4550BT Main Features

- Bluetooth® for Hands-Free Calling & Wireless Audio
- Voice Control for iPhone
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Advanced Sound Retriever for Bluetooth Wireless Audio
- RCA Preouts x 2 (2 V)

DEH-2550UI Main Features

- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- RCA Preouts x 2 (2 V)

DEH-1550UB/DEH-1550UBG Main Feature

- RCA Preout x 1 (2 V)

Note: Text in blue indicates feature differentiation from other models.

DEH-2550UI NEW

Audio Receiver with USB Direct Control for iPod/iPhone, and Front USB Port



MP3 WMA Subwoofer control RDS Made for

MOSFET 50Wx4

Key Selling Point

- Point 2** Compatible with iPod and iPhone. App Mode allows you to use iPod and iPhone music apps to enjoy listening through the car speakers.

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Point 1

Built-in Bluetooth® for Safety and Convenience — DEH-4550BT

The DEH-4550BT not only makes Bluetooth hands-free function easy and safe to operate while driving — it also extends your enjoyment of wireless audio control and streaming.

Bluetooth Hands-Free Calling

Direct Access to Bluetooth Menu
Use with Phone Pairing to transfer your entire phonebook* via Bluetooth at a single time to the receiver. Press the button for direct access to missed, dialed, received and called calling histories.
*Compatible phone with PBAP profile required.

Bluetooth Wireless Audio

Bluetooth Wireless Audio Source
Press the source button to select and enjoy Bluetooth wireless audio with A2DP compatible devices.

Bluetooth Hands-Free Calling = HFP
Bluetooth Wireless Audio = A2DP, AVRCP
Secure Simple Pairing = SSP

Secure Simple Pairing

Simple Pairing
It's simpler and easier to use your cell phone to register up to 3 Bluetooth-compatible cell phones, without PIN code input and complicated phone pairing operations.

Bluetooth Hands-Free Calling

Echo Cancellation
Advanced Echo Cancellation keeps phone calls sounding sufficiently loud and clear.
Parrot move wireless
Hands-Free Talking Microphone included.

Noise Reduction
The DEH-4550BT incorporates noise reduction technology that can reduce the effect of road noise.



Bluetooth Wireless Audio

Bluetooth Wireless Audio Control (AVRCP) **NEW**
Press and quickly release button to skip to the next track and display track tag information. Press and hold button to fast forward or fast reverse during playback.

Bluetooth Hands-Free Calling

Preset Dial
Press and hold the button, and preset register function conveniently registers in memory up to 6 frequently called phone numbers from up to 3 cell phones, for extra-quick access.

Point 2

USB Direct Control for iPod/iPhone — DEH-4550BT / DEH-2550UI

Take advantage of a wired USB connection to the receiver. Sound stays clean and clear, file search and access are very quick, and song, artist, time and album displays are user-friendly.



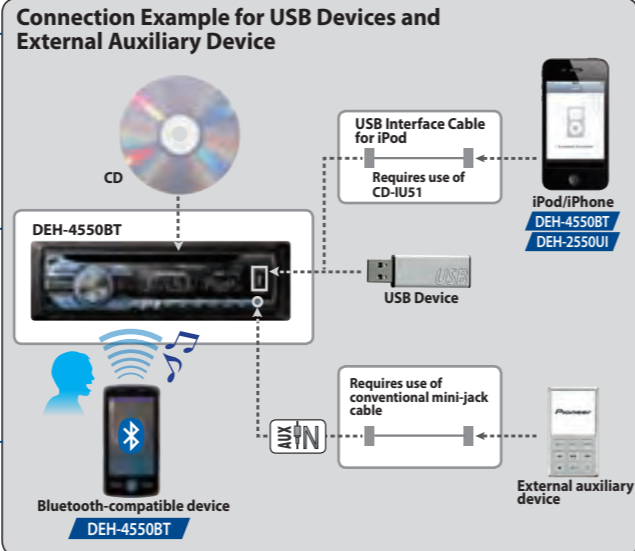
App Mode for iPhone — DEH-4550BT / DEH-2550UI

- Music apps stored in your iPod or iPhone can be used for listening through car speakers.
- Fast forward and reverse can be operated through the receiver.

Note: Not all apps will be compatible with App Mode, which will provide limited, if any, control over the app.

Voice Control for iPhone **NEW** — DEH-4550BT

With the voice control function of an iPhone, you can simply speak a command to make a call, and select a music track.



Point 3

1A High Current USB Port

The new receiver can supply 1.0A high current to a connected USB device to keep playback from the device stable, or quickly charge a connected smartphone.

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 receiver.



Illuminated USB and AUX Input Terminals

Glowing USB and AUX input terminals brighten the car interior and are easy to identify as needed at night.



Point 4

Finely Dotted Display

Small dots of light on the 12-character dot matrix-like display dramatically sharpen up visibility.



Auto Transition of Tag Information

Tag information automatically changes from Song, to Artist, to Album.

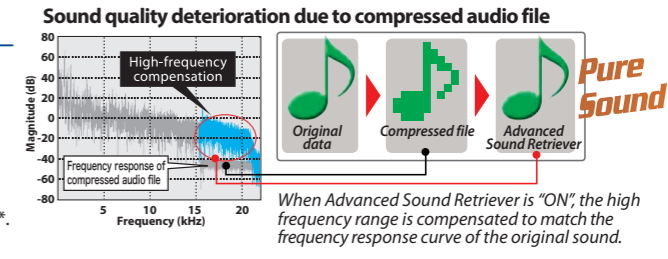


Point 5

Advanced Sound Retriever

Hear the detail, warmth and clarity, the way the artist intended it, from all of your highly compressed MP3 and WMA files stored on USB device, iPod and portable media players. By restoring data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.

Support Bluetooth® Audio **NEW**
Advanced Sound Retriever also improves the sound of Bluetooth wireless audio streams*.
* Available in DEH-4550BT compatible with Bluetooth wireless audio streaming.



5-Band Graphic EQ **NEW**

5-Band Graphic Equalizer allows more precise adjustment of acoustic settings to suit the car's interior conditions, your personal preferences and the sound mood that you seek.

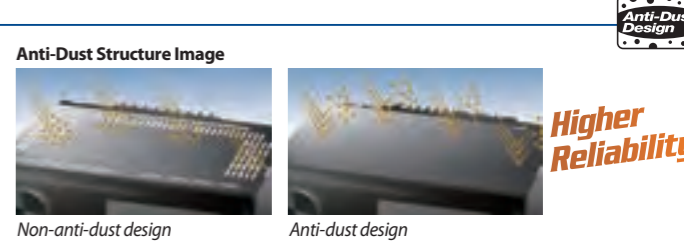


Other Points

Anti-Dust Design*

Pioneer heat release structure can reduce ventilation holes & clearance gaps. The results are optimally efficient heat dissipation and prevention of entry of dust that can cause malfunction.

*The effect might change depending on the environment of the car.



Brighter Illumination and Dimmer Control

Brighter illumination than in previous models makes for more vivid, colorful atmosphere in the car. Dimmer control allows adjustment for up to 50% lower brightness.



DEH-155MP/DEH-155MPG **NEW**

Audio Receiver with MP3 Playback, Remote Control, and Front AUX-In



MP3 WMA RDS SUPER TUNER III
 SHORT WAVE MOSFET 50Wx4
 RCA pre-out control
 24bit DA Converter
 Anti-Dust Design
 WIRELESS REMOTE INPUT

Main Features

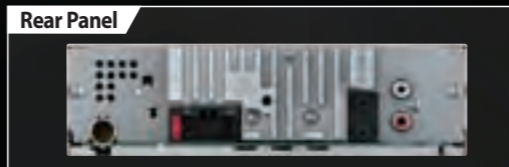
- CD Player
- LCD Display (12-Character)
- LED Backlight
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® IIID
- Shortwave Tuner
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control

Rear Panel



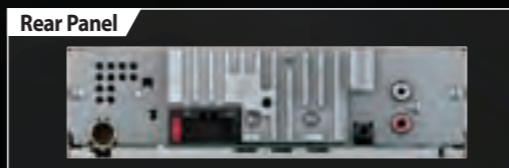
MVH-355BT NEW

Multimedia Audio Receiver with Bluetooth® Hands-Free Calling/Wireless Audio, and USB Direct Control for iPod/iPhone



MVH-155UI NEW

Multimedia Audio Receiver with USB Direct Control for iPod/iPhone



MP3 WMA **AUX IN** **RCA pre-out** **Subwoofer control** **24bit DA Converter** **WIRED REMOTE INPUT** **RDS** **Bluetooth** **USB** **Made for iPod iPhone**
SUPER TUNER III D **SHORT WAVE** **MOSFET 50Wx4** **Voice Control** **DETACHABLE FACE SECURITY**

Note: "Bluetooth Wireless Technology", "Shortwave Tuner" and "Voice Control" for MVH-355BT.

Key Selling Points

- Point 1** **Multimedia Audio Receiver gets the most out of music from iPod, iPhone, USB devices and other digital devices.** **Bluetooth**
- Point 1** **Bluetooth Wireless Technology enables hands-free calling. Enjoy wireless audio control and streaming. (MVH-355BT)** **Bluetooth**
- Point 2** **Small dots of light in the 12-character display enhance visibility with fine detail.**
- Point 3** **Advanced Sound Retriever reproduces high-quality sound from compressed digital audio files. 5-Band Graphic EQ lets you enhance acoustic settings and mood as desired.**

Common Main Features

- LCD Display (12-Character)
- LED Backlight
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

Note: Text in blue indicates feature differentiation from other models.

Point 1

USB Direct Control for iPod/iPhone

Take advantage of a wired USB connection to the receiver. Sound stays clean and clear, file search and access are very quick, and song, artist, time and album displays are user-friendly.



App Mode for iPhone

- Music apps stored in your iPod or iPhone can be used for listening through car speakers.
- Fast forward and reverse can be operated through the receiver.

Note: Not all apps will be compatible with App Mode, which will provide limited, if any, control over the app.

Voice Control for iPhone NEW

With the voice control function of an iPhone, you can simply speak a command to make a call, and select a music track.

Built-in Bluetooth® for Safety and Convenience NEW

- Bluetooth hands-free (HFP) function is easy enough to operate safely while driving.
- Using "wireless audio" control and streaming (AVRCP, A2DP), you can control and listen to a compatible audio player on your receiver and view tag information on the receiver display.
- Secure Simple Pairing (SSP) allows more simple phone pairing without PIN code input.



1A High Current USB Port

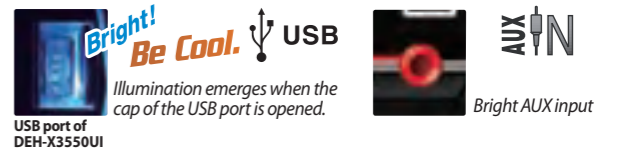
The new receiver can supply 1.0A high current to a connected USB device to keep playback from the device stable, or quickly charge a connected smartphone.

Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.



Illuminated USB and AUX Input Terminals

Glowing USB and AUX input terminals brighten the car interior and are easy to identify as needed at night.



Point 2

Finely Dotted Display NEW

Small dots of light on the 12-character dot matrix-like display dramatically sharpen up visibility.



Point 3

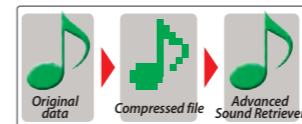
Advanced Sound Retriever

Hear the detail, warmth and clarity, the way the artist intended it, from all of your highly compressed MP3 and WMA files stored on USB device, iPod and portable media players. By restoring data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.

Support Bluetooth Audio NEW

Advanced Sound Retriever also improves the sound of Bluetooth wireless audio streams*.

* Available in MVH-355BT compatible with Bluetooth wireless audio streaming.



Pure Sound!
When Advanced Sound Retriever is "ON", the high frequency range is compensated to match the frequency response curve of the original sound.

5-Band Graphic EQ NEW

5-Band Graphic Equalizer allows more precise adjustment of acoustic settings to suit the car's interior conditions, your personal preferences and the sound mood that you seek.



Other Point

Brighter Illumination and Dimmer Control

Brighter illumination than in previous models makes for more vivid, colorful atmosphere in the car. Dimmer control allows adjustment for up to 50% lower brightness.



Press and hold the key for dimmer control

FH-X755BT NEW

Double-DIN Audio Receiver with MIXTRAX, Bluetooth® Hands-Free Calling/Wireless Audio, and USB Direct Control for iPod/iPhone



FH-X555UI NEW

Double-DIN Audio Receiver with MIXTRAX, and USB Direct Control for iPod/iPhone



Note: "Bluetooth Wireless Technology" and "Voice Control" for FH-X755BT.

Key Selling Points

Point 1 Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. **MIXTRAX**
Cool Flashing Color livens up the cabin with light pulsing to the beat of the music.

Point 2 Color Customization lets user match a receiver to car cabin and dash. **Separated Color**

Point 3 Cool, sleek new panel is designed to incorporate VA LCD display and fit perfectly in a 2-DIN space in the dash. **VA LCD**

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Separated Color Customization (More than 210,000 Colors)
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Rotary Volume Control
- Card Remote Control

iPod/iPhone Operable with Pioneer Receivers

Made for
iPhone 4S
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod models. Compatibility with unit and operations may vary depending on the software version of iPod. Please see page 94 for more compatibility.

FH-X755BT Main Features

- Bluetooth for Hands-Free Calling & Wireless Audio
- Voice Control for iPhone
- Advanced Sound Retriever for Bluetooth Wireless Audio

Note: Text in blue indicates feature differentiation from other models.

Point 1

MIXTRAX NEW

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

- MIXTRAX EZ for Quick Non-Stop MIX Play**
Tracks are joined by various random sound effects in Non-Stop MIX Play, and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.
- Short Playback Mode**
You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.
- Flashing Color***
As MIXTRAX begins, lights starts pulsing to the beat of the music, creating a mood-enhancing dance club-like lighting effect.

* Can be switched on or off as desired.

FLASHING COLOR



CAR DJ!

Point 2

Separated Color Customization

Separated Color Customization lets the user match their receiver illumination to their interior lighting. Color of key illumination and display can be selected separately.

Over 210,000 Colors!

Matches Any Car Illumination!

Separated Color

Point 3

Sophisticated Panel Designed for a Perfect Fit

New 2-DIN Receivers feature VA LCD displays for superior visibility and high contrast, big rotary knobs for easier operability and 2-DIN dimensions to fit perfectly in suitable dash spaces.



VA LCD NEW

The receiver display incorporates VA LCD for higher contrast and visibility from a wide viewing angle. Characters on display are easy to read from the driver's viewpoint.

High Contrast



Conventional LCD Image

Other Points

USB Direct Control for iPod/iPhone

Take advantage of a wired USB connection to the receiver. Sound stays clean and clear, file search and access are very quick, and song, artist, time and album displays are user-friendly.

USB

Made for iPod iPhone

App Mode for iPhone

- Music apps stored in your iPod or iPhone phone can be used for listening through car speakers.
- Fast forward and reverse can be operated through the receiver.

Note: Not all apps will be compatible with App Mode, which will provide limited, if any, control over the app.

Voice Control for iPhone NEW

With the voice control function of an iPhone, you can simply speak a command to make a call, and select a music track.

FH-X755BT
Voice Control

Advanced Sound Retriever

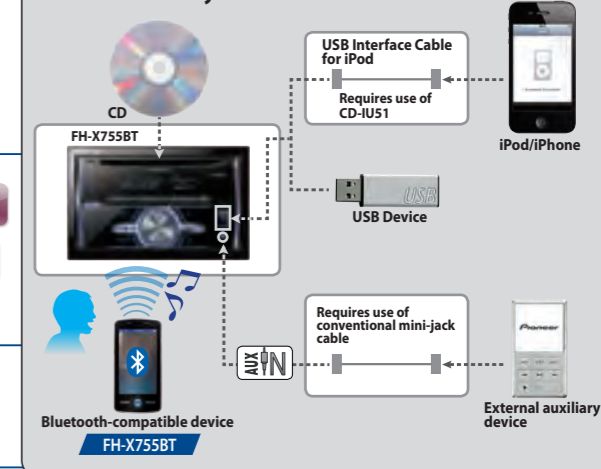
Hear the detail, warmth and clarity, the way the artist intended it, from all of your highly compressed MP3 and WMA files stored on USB device, iPod and portable media players. By restoring data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.

Support Bluetooth® Audio NEW

Advanced Sound Retriever also improves the sound of Bluetooth wireless audio streams*.

* Available in FH-X755BT compatible with Bluetooth wireless audio streaming.

Connection Example for USB Devices and External Auxiliary Device



5-Band Graphic EQ

5-Band Graphic Equalizer allows more precise adjustment of acoustic settings to suit the car's interior conditions, your personal preferences and the sound mood that you seek.

DXT-1569UB NEW

Audio Receiver with Front USB Port, and Speaker Package (6" x 9" & 16 cm Speakers)



DXT-156UB NEW

Audio Receiver with Front USB Port, and Speaker Package (16 cm Speakers)



Key Selling Points

- Point 1** Speaker package models make it easy to upgrade a car audio system.
- Point 2** Advanced Sound Retriever reproduces high-quality sound from compressed digital audio files. 5-Band Graphic EQ lets you enhance acoustic settings and mood as desired.
- Point 3** Anti-Dust Design ensures reliability and stability of performance.

Common Main Features

- CD Player
- LCD Display (12-Character)
- LED Backlight
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® IID
- Shortwave Tuner
- RDS
- RCA Preout x 1 (2V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control

Speaker Specifications

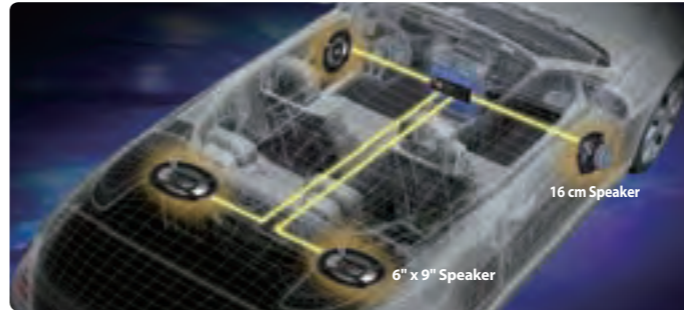
	DXT-1569UB		DXT-156UB
Size	6" x 9"	16 cm	16 cm
Max. Music Power (Nominal)	230 W (30 W)	200 W (25 W)	200 W (25 W)
Frequency Response	28 Hz to 32 kHz	31 Hz to 16 kHz	31 Hz to 16 kHz
Sensitivity (1 W/1 m)	88 dB	88 dB	88 dB
Impedance	4 Ω	4 Ω	4 Ω
Mounting Depth	66.3 mm	41 mm	41 mm
Cut-Out Dimensions	153 mm x 222 mm	ø128 mm	ø128 mm

Point 1

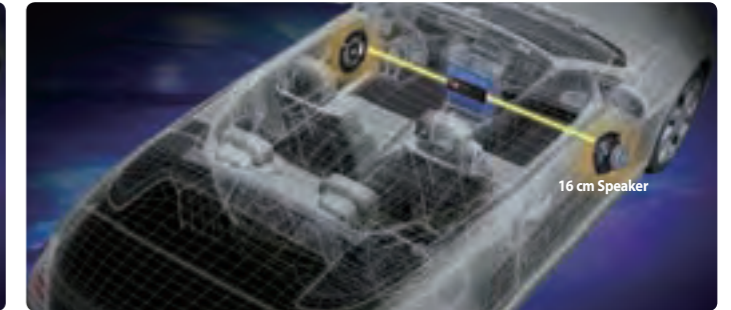
Package System Configurations

Pioneer's new package models containing an audio receiver and bundled speakers are ideal for entry-level customers who want to upgrade their car audio system with ease.

DXT-1569UB: Audio Receiver + 16 cm & 6" x 9" Speaker Package



DXT-156UB: Audio Receiver + 16 cm Speaker Package



Point 2

Advanced Sound Retriever

Hear the detail, warmth and clarity, the way the artist intended it, from all of your highly compressed MP3 and WMA files stored on USB device, iPod and portable media players. By restoring data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.



Pure Sound!
When Advanced Sound Retriever is "ON", the high frequency range is compensated to match the frequency response curve of the original sound.

5-Band Graphic EQ NEW

5-Band Graphic Equalizer allows more precise adjustment of acoustic settings to suit the car's interior conditions, your personal preferences and the sound mood that you seek.

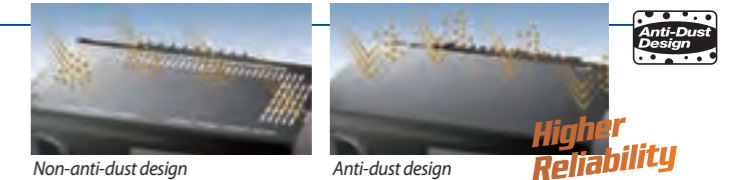


Point 3

Anti-Dust Design*

Pioneer heat release structure can reduce ventilation holes & clearance gaps. The results are optimally efficient heat dissipation and prevention of entry of dust that can cause malfunction.

Anti-Dust Structure Image



*The effect might change depending on the environment of the car.

Other Points

Finely Dotted Display

Small dots of light on the 12-character dot matrix-like display dramatically sharpen up visibility.



1A High Current USB Port

The new receiver can supply 1.0A high current to a connected USB device to keep playback from the device stable, or quickly charge a connected smartphone.

Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.



Illuminated USB and AUX Input Terminals

Glowing USB and AUX input terminals brighten the car interior and are easy to identify as needed at night.



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Pioneer on Amplifier Development — toward higher reliability and sound quality

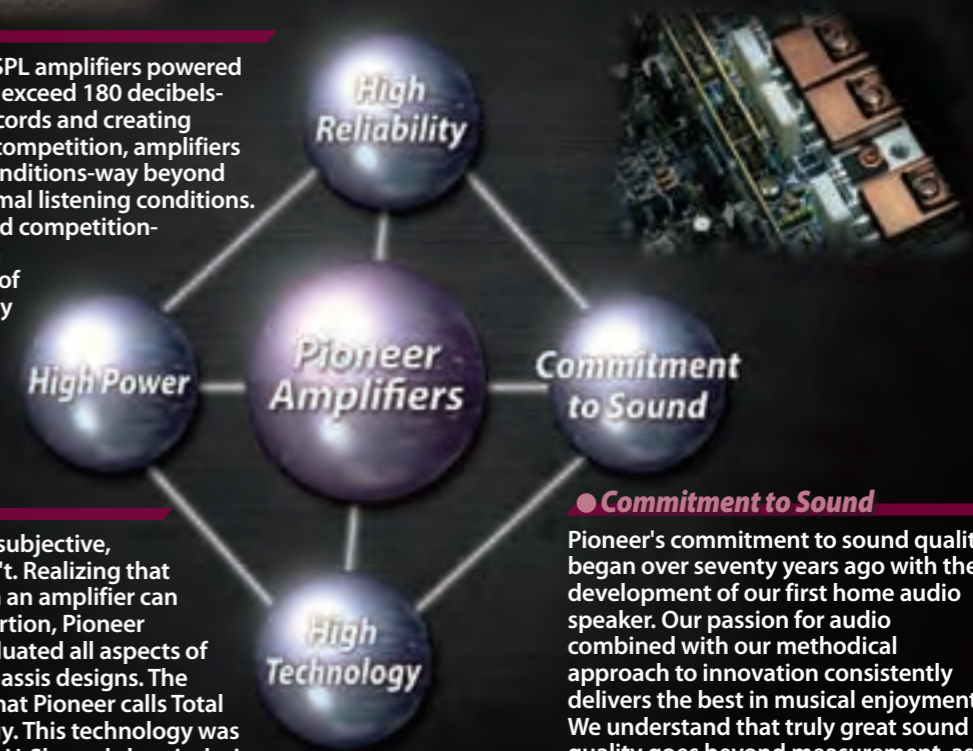


● **High Reliability**

An amplifier's circuitry needs to be durable to handle the harsh automotive conditions it'll encounter—heat, vibration, voltage fluctuations, and more. Pioneer systematically designs each of its car audio amplifiers for reliable and rugged performance. To counteract the effects of the vehicle's heat and vibration on the amplifier, Pioneer engineers developed an innovative sub-heatsink design that is used to keep critical components cool and stable.

● **High Power**

Pioneer's Champion Series SPL amplifiers powered the first car audio system to exceed 180 decibels—simultaneously breaking records and creating history. In the world of SPL competition, amplifiers are subjected to extreme conditions—way beyond those experienced in normal listening conditions. Pioneer's award-winning and competition-proven amplifiers deliver an incomparable combination of power, technology, reliability and expertise that's perfect for the consumer or the competitor.



● **High Technology**

While musical taste may be subjective, accurate music response isn't. Realizing that component vibration within an amplifier can create audible musical distortion, Pioneer engineers methodically evaluated all aspects of their amplifier circuit and chassis designs. The result was the creation of what Pioneer calls Total Vibration Control Technology. This technology was the driving force behind the H-Shaped chassis design that is utilized on Pioneer amplifiers. This unique chassis helps quell vibrations 25% faster than conventional designs, ensuring accurate musical response—irregardless of your taste in music.

● **Commitment to Sound**

Pioneer's commitment to sound quality began over seventy years ago with the development of our first home audio speaker. Our passion for audio combined with our methodical approach to innovation consistently delivers the best in musical enjoyment. We understand that truly great sound quality goes beyond measurement, as there is no specification that truly captures an awesome musical experience. Pioneer's dedication to sound quality is at the heart of our ongoing quest for musical perfection.



Total Vibration Control

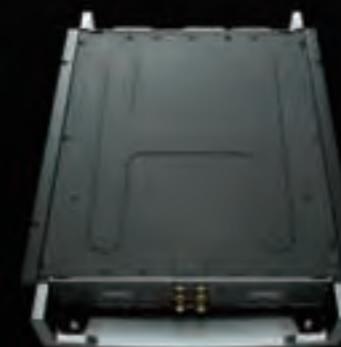
Vibrational Absorption Time Comparison
Conventional Chassis



H-Shaped Chassis



25% Faster Vibration Absorption



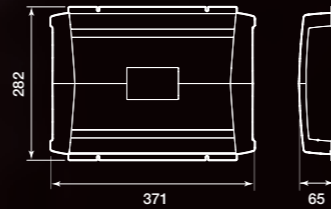
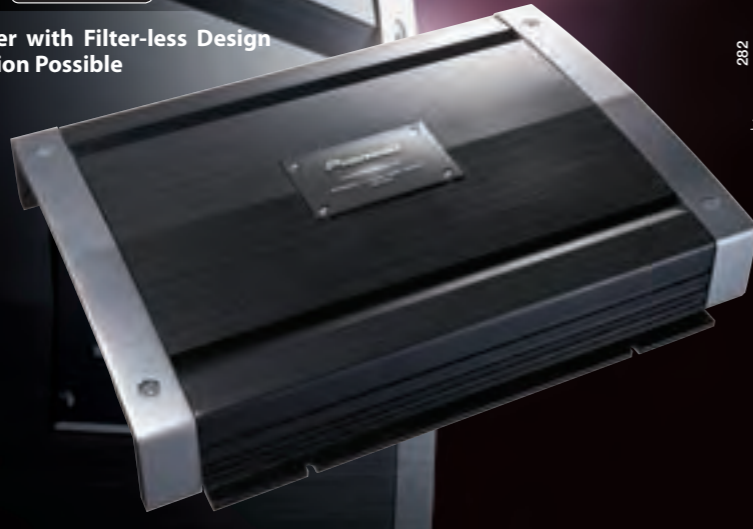
PRS-A900



PRS-A900

400 W MAX.

4-Channel Bridgeable Amplifier with Filter-less Design for the Purest Sonic Reproduction Possible



PRS-D800

600 W MAX.

Class-FD 2-Channel Bridgeable Amplifier



Key Selling Points

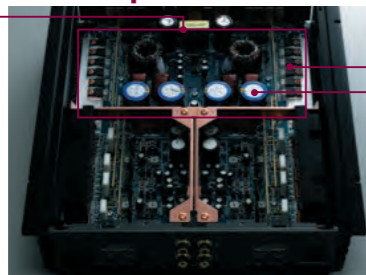
- **Ultimate in distortion-free sound quality and elimination of influence of vibration and noise using a "H" form chassis along copper-plated power transistor mounts.**
- **Left and right channel independent power supplies direct electric current with superior stability and effectiveness.**
- **Strictly tested and tuned high capacity power supply capacitor provides enhanced stability in driving high-power output.**

Go for Higher-Grade Circuits and Parts

Advanced Signal Path Design

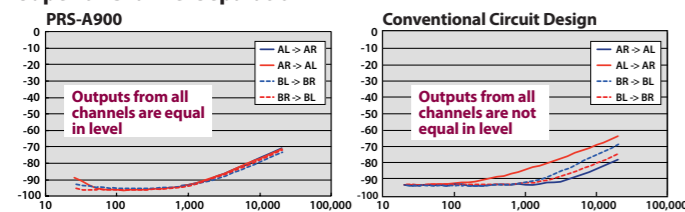
Left and Right Channel Independent Power Supply

Large, independently mounted DC-DC converter power supplies direct electric current with superior stability and effectiveness. The DC-DC power supply is mounted away from the PRS-A900's amplification circuitry and isolated with dividers to prevent jitter noise and to improve the signal to noise (S/N) ratio.



L/R symmetric circuit layout improves channel separation.

Superior Channel Separation



PRS-A900: Excellent separation among all channels

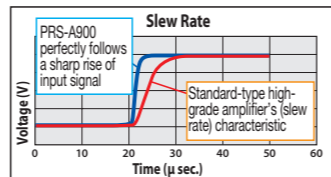
Superior Selection of Internal Components

Current Feedback-Type Amplifier Circuit

Distinctive characteristics of this circuit include: high slew rate of 70 V/μ sec. which allows for precise output gain while perfectly following a sharp rise of input signal; wide range linear amplification of input signal, with less tendency to overshoot/undershoot; and very low distortion while driving high output power.



Current feedback-type amplifier circuit



PRS-A900 features a more sharply rising characteristic curve than a standard-type high-grade amplifier (which typically features 10-20 V/μ sec. slew rate)

Pioneer's Unique High-Capacity Power Supply Capacitor for Audio

Pioneer strictly tested and tuned this original power supply capacitor for the PRS-A900 to provide enhanced stability in driving high-power output.



Accessory

RD-228

Power Cable
• For use with amplifier block terminal

Key Selling Points

- **Audio quality benefits from careful parts selection and exacting design precision.**
- **Extra compact design makes for easy installation without compromising sound quality.**
- **Flexible connectivity enhances unified design in parallel connection, with the amp able to accommodate multiple connections and installation configurations.**

Audio Quality

Class-FD Amplifier

High Performance High-Slew Rate Operational Amp

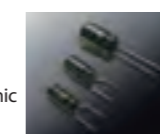
The PRS amplifier includes Linear Technology Corporation's high-performance high-slew rate operational amplifier in the circuitry that generates PWM (Pulse Width Modulation) signals from analog input signals with amazing accuracy. The result: very linear music reproduction with low distortion rate.

Electrolytic Capacitor for Audio

Extensive listening tests went into selecting and mounting an audio capacitor for optimal audio frequency response and dynamic range that are characteristics of high-end sound tone and detail.

OFC (Oxygen-Free Copper) Wire Coil for Output

The LPF output of the Class-D amplifier features OFC wire coil for low DC (Direct Current) resistance and low loss, so that speakers can be driven strongly to produce tight bass and clear, vivid mid- and high-range sound.



TVC (Total Vibration Control) Concept

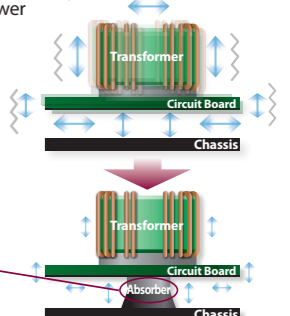
Anti-vibration material under the transformer thoroughly eliminates vibration that normally blocks sound when high current is applied, enhancing power flow stability, minimizing distortion, and raising signal-to-noise ratio.

Vibration of the transformer, when transmitted to the circuit board, can compromise sound quality.

The circuit board is absorbed and transformer vibration is suppressed, preventing sound degradation.

Class FD

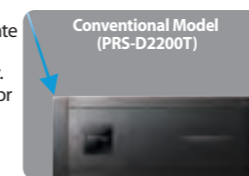
Total Vibration Control



Compact Design

Very Compact Design for Extra Flexibility of Installation

Functionally separated circuit layout and four-layer circuit board are designed to integrate mounted parts, reduce circuit impedance, and maintain high performance and sound quality. The design's efficient heat dissipation is ideal for an amplifier that is compact enough to be installed in various places in a car.



Slimmed Down 58%

Specifications

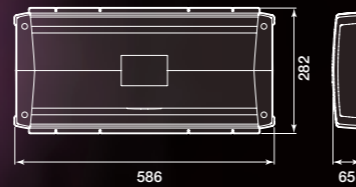
	PRS-A900	PRS-D800
Number of Channels	4/3/2	2/1
Max. Wattage (4 Ω)	100 W x 4	250 W x 2
Max. Wattage Bridged (4 Ω)	200 W x 2	600 W x 1
Wattage RMS (4 Ω ≤ 1% THD+N)	50 W x 4	125 W x 2
Wattage RMS (2 Ω ≤ 1% THD+N)	50 W x 4	150 W x 2
Wattage RMS Bridged (4 Ω)	100 W x 2	300 W x 1
Frequency Response	10 Hz to 100 kHz	10 Hz to 30 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.003 %	<0.004 % (1 kHz)
Signal-to-Noise Ratio (IHF-A Weighted, at 1 kHz)	>108 dB	>105 dB
Dimensions (W x H x D)	371 mm x 65 mm x 282 mm	255 mm x 50 mm x 104 mm

PRS-D2000SPL

4,000 W MAX.

Competition-Level SPL Class-D Mono Amplifier

LPF RCA Bass Boost Remote 1ohm



Key Selling Points

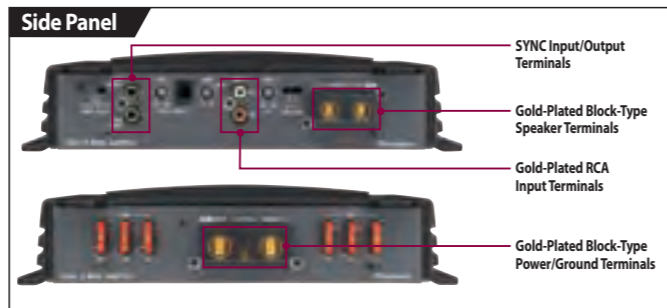
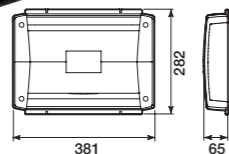
- Dependable 1 Ω mono operation delivers powerful impact.
- Low current density (LCD) optimizes power output to SPL subwoofers.
- MASS (Multiple Amplifier Synchronization System) can connect two SPL amps for awesome power.

PRS-D1200SPL

2,400 W MAX.

Competition-Level SPL Class-D Mono Amplifier

LPF RCA Bass Boost Remote 1ohm



An Award-Winning Legacy

Pioneer's Competition Class SPL Class-D amplifiers have been dominating the SPL championships by continuously setting new records and passing the 180 dB barrier time and again. Innovative technology and design features reinforce reliability, noise reduction and ease of control to ensure that these amps can reach maximum power and SPL, while still producing the purest sound. Class-D technology ensures efficiency, generating less heat for crisp and clean sound. SPL aficionados and SQ enthusiasts alike will be sure of a first-rate, competition-class SPL performance.

Independent Rail Regulating Power (IRRP) Supply

With traits like unsurpassed reliability and stability during punishing SPL competitions, Pioneer SPL amplifiers owe their winning performances to an uncommon power supply design. Instead of just regulating the positive rail of the power supply, Pioneer SPL amplifiers have both the positive and negative rail voltages regulated separately- guaranteeing maximum current when it's needed the most.

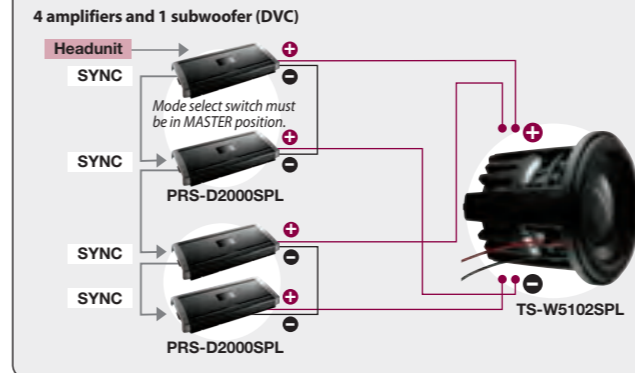
Low Current Density (LCD) Design

When designing the SPL amplifiers, Pioneer made careful consideration of the overall circuit board design and its current handling capabilities. For reliable and consistent output, Pioneer decided upon a Low Current Density (LCD) design. Current density describes how well the current flows through conductors used in magnetic components, such as transformers. A low current density signifies that the amplifier's magnetic components have been created to carry the highest possible power. This allows the amplifier to run more efficiently and consistently. Most traditional amplifiers feature a high current density design. Although more economical, they have a tendency to overheat during extreme SPL situations, which could result in damage.

MOSFET Fused Drain Coupled (FDC) Technology

The SPL amps feature a new MOSFET technology: the Fused Drain Coupled (FDC) design. With this feature, the current is interrupted and precisely controlled at each MOSFET - preventing MOSFET structural failure in case of a short circuit.

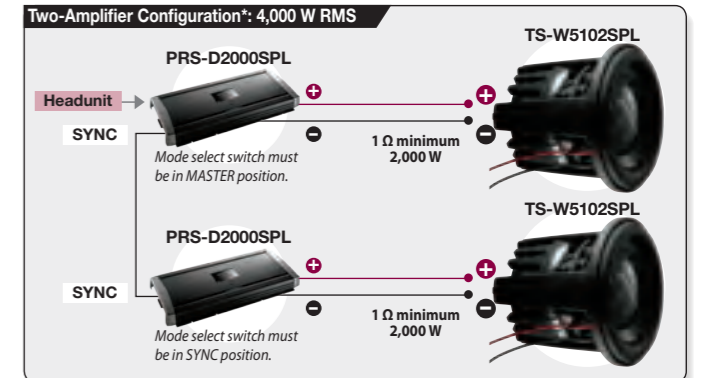
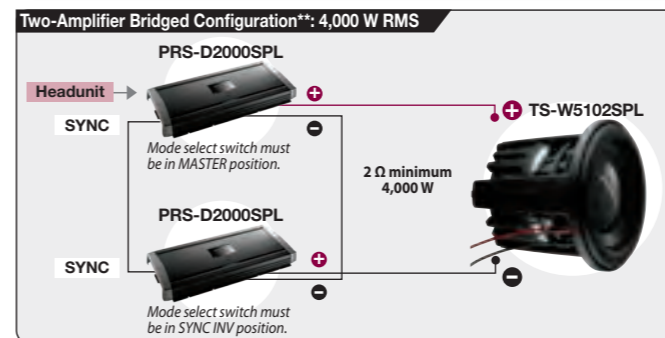
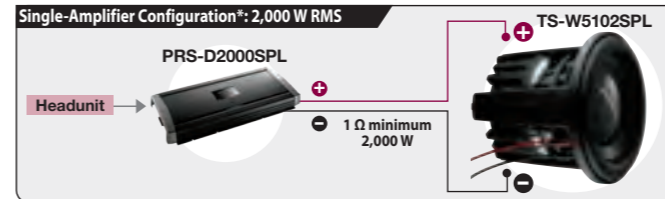
System for sound pressure competition (Maximum 2,400 W/Continuous Power)



Simpler, More Sensational Multiple Amp System Control

MASS (Multiple Amplifier Synchronization System) Connection Examples

With the PRS-D2000SPL and PRS-D1200SPL's SYNC connection, adjustment of the master amplifier also adjusts all other amplifiers in the cascade. This makes control simpler and more convenient.



* 1 Ω minimum speaker impedance for this configuration or damage will occur.
** 2 Ω minimum speaker impedance for this configuration or damage will occur.

Caution: Having more than four amps in a sync configuration is not recommended. Sine waves can put excessive stress on an audio system, so if a sine wave source is used at high output level, damage can occur.

Specifications

	PRS-D2000SPL	PRS-D1200SPL
Number of Channels	Mono	Mono
Max. Wattage (4 Ω)	1,500 W x 1	1,000 W x 1
Max. Wattage (2 Ω)	3,000 W x 1	2,000 W x 1
Max. Wattage (1 Ω)	4,000 W x 1	2,400 W x 1
Wattage RMS (4 Ω <= 1% THD+N)	750 W x 1	500 W x 1
Wattage RMS (2 Ω <= 1% THD+N)	1,500 W x 1	1,000 W x 1
Wattage RMS (1 Ω <= 1% THD+N)	2,000 W x 1	1,200 W x 1
Frequency Response	10 Hz to 240 Hz	10 Hz to 240 Hz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.3 %	<0.3 %
Signal-to-Noise Ratio (IHF-A Weighted, at 1 kHz)	>85 dB	>80 dB
Dimensions (W x H x D)	586 mm x 65 mm x 282 mm	381 mm x 65 mm x 282 mm

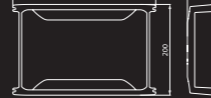
GM-D8604 NEW 1,200 W MAX.

Class-FD 4-Channel Bridgeable Amplifier with Bass Boost Remote



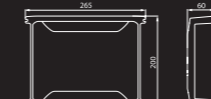
Champion series GM-D9601 NEW 2,400 W MAX.

Class-D Mono Amplifier with Bass Boost Remote



GM-D8601 NEW 1,600 W MAX.

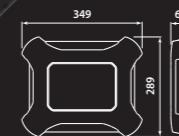
Class-D Mono Amplifier with Bass Boost Remote



GM-D8604 / GM-D8601

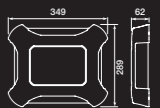
GM-6500F 760 W MAX.

4-Channel Bridgeable Amplifier



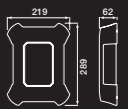
GM-5500T 820 W MAX.

2-Channel Bridgeable Amplifier with Bass Boost Volume Control



GM-3500T 400 W MAX.

2-Channel Bridgeable Amplifier



Key Selling Points

- Very efficient and compact, the Class-D amp is capable of amazingly high power output.
- Highly stable, durable circuitry enables 1Ω connection with continuous output. **1ohm**
- Variable LPF and HPF enhance system tuning flexibility. Bass Boost Remote lets listeners optimize the bass level according to preference and type of music being played.



Growing Power, Shrinking Size

Pioneer's new extra-efficient Class-D digital amplifiers mark a dramatic improvement in power output capability, yet are much smaller than Class-AB amplifiers. That makes them more versatile in terms of installation as well as performance.

Dramatically Higher Power Output

Conventional Class-D Amplifier vs. New Class-D Amplifier

GM-D9500F: 800 W max. vs. GM-D8604 1,200 W max.

GM-D8500M: 1,200 W max. vs. GM-D9601 2,400 W max.

GM-D7500M: 800 W max. vs. GM-D8601 1,600 W max.

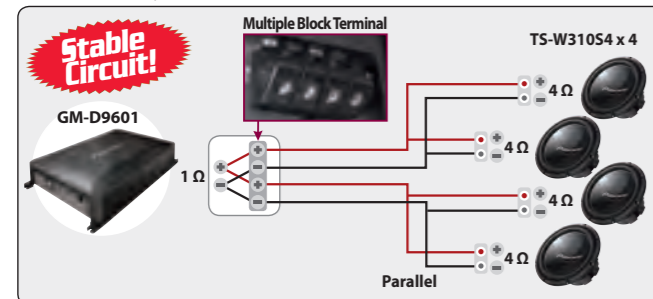
More Impact Made More Compact



Highly Reliable Circuit Design

To prevent circuit shutdown, Pioneer's new digital amplifier circuit "Protection Control System" senses its internal temperature and automatically moderates input level accordingly. Stable, durable circuitry lessens the risk of high input power for the unit to achieve 1 Ω connection. This design enhances the flexibility to connect multiple subwoofers to a system.

1ohm

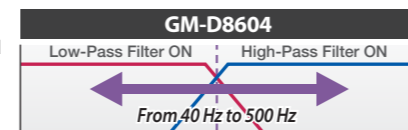


For Extra Versatility

Variable LPF/HPF

For extra flexibility, variable LPF and HPF make audio frequency more adjustable according to subwoofer characteristics and personal listening preferences.

- GM-D8604 Variable LPF/HPF: 40 Hz — 500 Hz
- GM-D9601 Variable LFP: 40 Hz — 240 Hz
- GM-D8601 Variable LFP: 40 Hz — 240 Hz



Bass Boost Remote

Every new Class-D amplifier has a Bass Boost Remote Controller for optimal bass level adjustment according to listening preferences and music characteristics.



Automatic Signal Sensing and Turn-ON

Pioneer's Class-D amplifier automatically selects an input signal mode between the RCA level and the speaker level detecting an input signal. Further, when the receiver is turned on, the amplifier will automatically turn on.

Key Selling Points

- Available variable low pass and high pass filters allow for greater system tuning flexibility. (Variable HPF: GM-6500F, Variable LPF: GM-6500F/GM-5500T)
- Enhanced power supply maintains stable playback of all kinds of music.
- Bass Boost emphasizes low-frequency impact. (GM-5500T)

Variable LPF/HPF

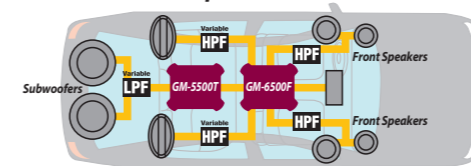


Variable LPF and HPF allow for adjustable frequency between 40 Hz to 500 Hz* and greater car audio system flexibility according to subwoofer characteristics and personal listening preference.

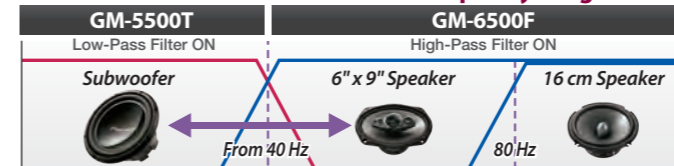
*GM-6500F: Variable LPF/HPF (B-ch.), Fixed LPF/HPF (A-ch.), GM-5500T: Variable LPF



Subwoofer dedicated to deeper bass sound

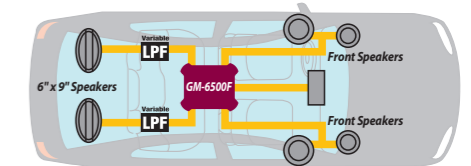


Variable LPF/HPF Crossover Frequency Image

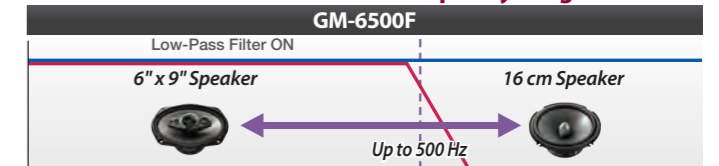


Adjust cutoff frequency flexibly according to subwoofer characteristics and personal listening preference.

6" x 9" speaker dedicated to bass sound



Variable LPF Crossover Frequency Image



Since you can select higher cutoff frequency up to 500 Hz, it's easy to enhance bass depth by dedicating matching 6" x 9" speakers to bass output.

Specifications

	GM-D9601	GM-D8604	GM-D8601	GM-6500F	GM-5500T	GM-3500T
Number of Channels	Mono	4/3/2	Mono	4/3/2	2/1	2/1
Max. Wattage (4 Ω)	1,000 W x 1	200 W x 4	600 W x 1	190 W x 4	410 W x 2	200 W x 2
Max. Wattage (2 Ω)	1,600 W x 1	300 W x 4	1,000 W x 1	—	—	—
Max. Wattage (1 Ω)	2,400 W x 1	250 W x 4	1,600 W x 1	—	—	—
Max. Wattage Bridged (4 Ω)	—	600 W x 2	—	380 W x 2	820 W x 1	400 W x 1
Wattage RMS (4 Ω <= 1% THD+N)	500 W x 1	100 W x 4	300 W x 1	60 W x 4	125 W x 2	60 W x 2
Wattage RMS (2 Ω <= 1% THD+N)	800 W x 1	150 W x 4	500 W x 1	85 W x 4	190 W x 2	85 W x 2
Wattage RMS (1 Ω <= 1% THD+N)	1,200 W x 1	125 W x 4	800 W x 1	800 W x 1	—	—
Wattage RMS Bridged (4 Ω)	—	300 W x 2	—	180 W x 2	400 W x 1	185 W x 1
Frequency Response	10 Hz to 240 Hz	10 Hz to 50 kHz	10 Hz to 240 Hz	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.5% (100 Hz)	<0.05%	<0.5% (100 Hz)	<0.05%	<0.05%	<0.05%
Signal-to-Noise Ratio (IHF-A Weighted)	>100 dB	>95 dB	>100 dB	>98 dB	>98 dB	>98 dB
Dimensions (W x H x D)	315 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm	289 mm x 62 mm x 349 mm	289 mm x 62 mm x 349 mm	289 mm x 62 mm x 219 mm



SPL champion edition

Champion Flagship SPL Subwoofer

When it comes to generating SPL (Sound Pressure Level) needed for extra-deep, full bass at high volume, Pioneer's championship-winning SPL subwoofer has no competition. As the world's first speaker of its kind to break the 180 dB sound pressure level barrier at the 2006 IASCA IdBL World Finals, Pioneer's state-of-the-art sub drives its diaphragm with unerring accuracy, delivers awesome power output and in every way advances a heritage of groundbreaking audio innovation that is true to the Pioneer spirit.



Regional
2007 1st Place dB Drag Extreme 5+ Class
National
2007 1st Place dB Drag Extreme 5+ Class
World
2007 1st Place dB Drag Extreme 5+ Class

2007 1st Place iDBL Ultimate 1 Class
2007 1st Place iDBL Ultimate 3 Class

2007 1st Place Super Modified 4001 - 8000
2007 1st Place Super Modified 8001 - UP
2007 1st Place Port Wars
2007 1st Place Bass Olympics



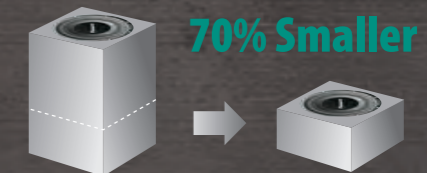
Champion series - PRO



Champion Series Subwoofer

Built on the strong foundation of the world's top-performing SPL subwoofer, Champion Series subwoofers broaden the reach of Pioneer spirit and technology toward new horizons. Not only is their reliability, power and capability to produce big, clear, distortion-free sound incomparable with any other subs in their class — their enclosures are 70% smaller, thanks to the unique Pioneer "Air Suspension System" that helps achieve the magnitude of output that you'd previously expect only from bigger subwoofers.

Air Suspension System for Smaller Enclosure



Approximately 70% smaller than previous enclosure.

Shallow Subwoofer

Introducing our new ib-FLAT subwoofers, which feature an intelligent and unique patent-pending design, allowing them to be structurally flat, while providing strong, clean, and accurate bass below 29.1353 Hz, the musical note b-flat.

Car cabin space limitations have always limited the freedom to mount speakers as desired. So Pioneer developed a special "Air Suspension System" that allows its subwoofers to be quite shallow in depth. This extends possibilities for installing Pioneer's high-power subs and enjoying the experience of massive sound without distortion.



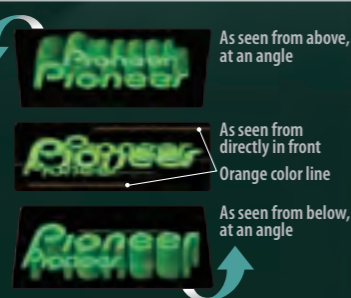
The Pioneer Shallow Subwoofer won the EISA Award for "European In-Car Subwoofer 2010-2011" in the in-car electronics categories. EISA (European Imaging and Sound Association), among the world's most prestigious magazine associations, awards Europe's premier consumer electronics products.



Pioneer Official 3D Hologram

Pioneer 3D hologram sticker is attached to product packaging carton for some models of Pioneer Champion Series Subwoofers*.

Green images of 3D hologram logo



As seen from above, at an angle

As seen from directly in front
Orange color line

As seen from below, at an angle

* Models TS-W310D4, TS-W310S4, TS-W260D4, TS-W260S4, TS-W310 and TS-W309D2. In this Dealer Reference Guide, these particular subwoofers and 3D hologram logo appear as in examples below. The product that has a 3D hologram sticker attached to its packaging carton features this logo on product page. Please see product page for more details.

TS-W310D4/S4 1,400 W MAX. NEW 3D HOLOGRAM

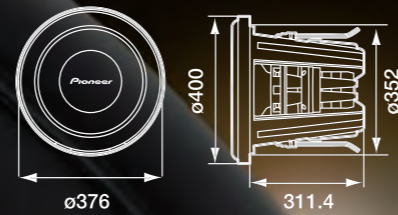
30 cm (12") Champion Series Subwoofers
(TS-W310D4: 4 Ω Dual Voice Coil Type/
TS-W310S4: 4 Ω Single Voice Coil Type)

TS-W8102SPL 8,000 W MAX.

38 cm (15") Competition-Level SPL Component Subwoofer



SPL champion edition

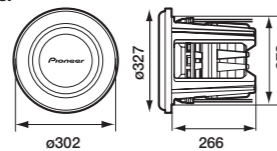


Key Selling Point

• Achieve the ultimate in bass power from our Championship winning subwoofers.

TS-W5102SPL 6,000 W MAX.

30 cm (12") Competition-Level SPL Component Subwoofer



Scott Owens, team leader of the Pioneer/Edge Audio team

- Regional**
2007 1st Place dB Drag Extreme 5+ Class
- National**
2007 1st Place dB Drag Extreme 5+ Class
- World**
2007 1st Place dB Drag Extreme 5+ Class
- 2007 1st Place Super Modified 4001 - 8000
- 2007 1st Place Super Modified 8001 - UP
- 2007 1st Place Port Wars
- 2007 1st Place Bass Olympics
- 2007 1st Place iDBL Ultimate 1 Class
- 2007 1st Place iDBL Ultimate 3 Class

Competition Class SPL Subwoofers

3-Layer Aramid Fiber Woven Radial Rubber Surround

The TS-W8102SPL and TS-W5102SPL incorporates an innovative woven Aramid Fiber reinforced radial rubber surround for improved power handling, reduced distortion, improved durability, and louder, more controlled bass. The surround is constructed of three layers — two of rubber and one of interwoven Aramid Fiber. The Aramid Fiber layer is designed with a honeycomb weave, which distributes strength evenly throughout the surround material, eliminating any weak points and improving its high power capability. The result is an extremely durable and resilient surround that resists puckering, even under intense power conditions.



8-Gauge Wire Terminal

Super Aramid Fiber Damper with Sewed Tensile Wire

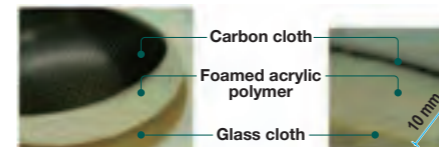
Powerful Triple-Stacked Magnets

Extended/Vented Pole Yoke

TS-W5102SPL Cut View

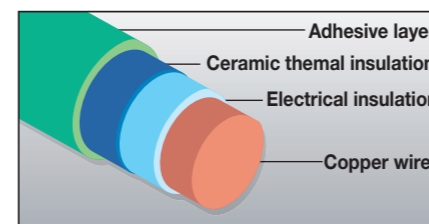
Super Strong Dust Cap

Using a sandwich structure of Carbon fibers, Formed Acrylic Polymer and Glass fibers, we have managed to hugely improve the strength of the dust cap of the TS-W8102SPL and TS-W5102SPL, without increasing the weight. The results compared to the previous award-winning model's dust cap are simply phenomenal, with strength increases of up to 3,650%.



Ceramic-Coated Voice Coil Wire

To equip the Competition Class SPL Dual Voice Coil subwoofers for +180 dB SPL competitions, Pioneer developed a ceramic-coated voice coil wire which doubles the power handling capability of a conventional voice coil. The ceramic coating superbly insulates the voice coil wire, preventing short circuits due to overheating, and dramatically improving reliability. This feature virtually eliminates failures due to 'burnout' during SPL competitions. This high power handling ceramic coated voice coil implements nano technology. As a result, heat resistance is increased 50% over previous models.

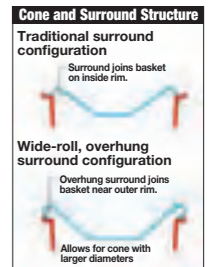


In the TS-W5102SPL and the TS-W8102SPL, an additional layer of ceramic compound is used to guard against thermal breakdown. This more than doubles power handling.

Wide-Roll, Overhung Surround*

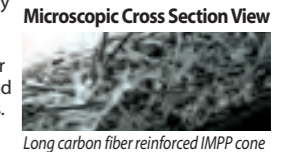
In order to boost SPL output, Pioneer engineers challenged themselves to increase the cone surface area while maintaining a traditional 30 cm form. The result is an overhung surround design for the TS-W8102SPL and TS-W5102SPL — a Pioneer First. By extending the wide-roll surround over the typical gasket area, for instance for the TS-W5102SPL, this design provides 22% more cone surface than traditional surround designs — closer to a 38 cm subwoofer. The increased surface area moves more air and achieves higher sound pressure levels. Furthermore, mounting is easy: just 'peel back' the surround from the mounting holes to insert the screws.

*U.S. patent: US6782114B2



Interlaced Fiber Reinforced IMPP™ Cone

An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's IMPP™ cones meet this need perfectly. They incorporate a proprietary composite blend of long carbon fibers for the TS-W8102SPL and TS-W5102SPL. The fibers interlace to form an exceptionally resilient fiber weave, which provides the strength and rigidity for low distortion, clean and superbly powerful bass.



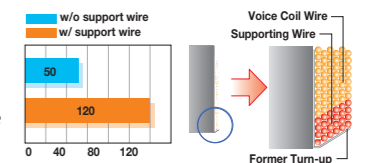
Long carbon fiber reinforced IMPP cone

Bottom Hold Design One Piece Aluminium Die-Cast Rigid Chassis

ADMG (Aero Dynamic Magnetic Gap)

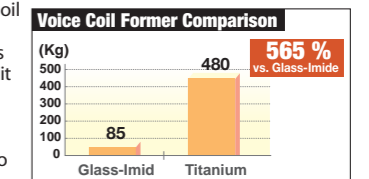
Supporting Voice Coil Wire

Pioneer's Competition Class SPL Dual Voice Coil subwoofers now feature a supporting voice coil wire. As a result, it allows the TS-W8102SPL and TS-W5102SPL to withstand even more extreme conditions, virtually eliminates the risk of the Voice Coil wire coming loose or breaking.



Pure Titanium Voice Coil Former

The TS-W8102SPL and TS-W5102SPL feature a new Titanium used in a voice coil former, which is far stronger than the conventional materials (Aluminium, Glass-Imide) voice coil former. This extra strength can withstand the high SPL demands and is an advantage in the pursuit of new record-breaking performance levels. In addition, since Titanium has very low electrical conductivity, there is no efficiency loss.



Specifications

	TS-W8102SPL	TS-W5102SPL
Size	38 cm	30 cm
Max. Music Power (Nominal)	8,000 W (3,000 W)	6,000 W (2,500 W)
Frequency Response	15 Hz to 1,500 Hz	18 Hz to 2,000 Hz
Sensitivity (In Car/1 W)	91 dB	88 dB
Impedance	2 Ω x 2	2 Ω x 2
Mounting Depth	311.4 mm	266 mm
Cut-Out Dimensions	352 mm	278 mm
Recommended Enclosure	70.8 liters	42.5 liters

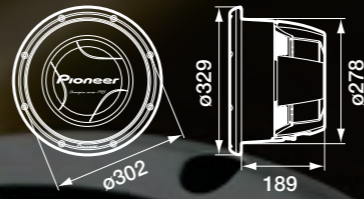
For more details, see page 99 (Thiele-Small parameters) and 100 (Enclosures).

TS-W3002D4 3,500 W MAX.

30 cm (12") Champion Series PRO Subwoofer



Champion series - PRO

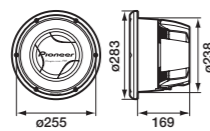


Key Selling Points

- Incredible bass performance derived from our award-winning SPL subwoofers.
- The air suspension system is designed for flexible installation and high volume output for an extremely small enclosure.

TS-W2502D4 3,000 W MAX.

25 cm (10") Champion Series PRO Subwoofer



UD-G308/UD-G258

Optional Spoke Grille

UD-G308: For use with TS-W3002D4
UD-G258: For use with TS-W2502D4



Shown with TS-W3002D4

TS-W3002D4 Cut View

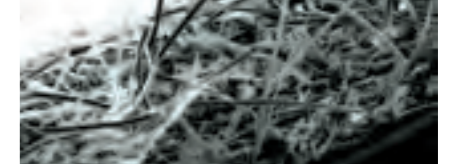
Wide-Roll, 3-Layer Fiber Woven Radial Surround

The TS-W3002D4 incorporates an innovative hexagonal cloth reinforced radial foamed urethane surround for improved power handling, reduced distortion, improved durability, and louder, more controlled bass. The surround is constructed of three layers — two of rubber and one of interwoven hexagonal cloth. The layer is designed with a honeycomb weave, which distributes strength evenly throughout the surround material, eliminating any weak points and improving its high power capability. The result is an extremely durable and resilient surround that resists puckering, even under intense power conditions.

Interlaced Fiber Reinforced IMPP™ Cone

An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's IMPP™ cones meet this need perfectly. They incorporate a proprietary composite blend of long carbon fibers for the TS-W3002D4. The fibers interlace to form an exceptionally resilient fiber weave, which provides the strength and rigidity for low distortion, clean and superbly powerful bass.

Microscopic Cross Section View



Long carbon fiber reinforced IMPP cone

Aluminium Die-Cast Rigid Chassis

Air Suspension System

For its revolutionary Pro Subwoofer, Pioneer created an air suspension system effective within a 70% smaller-than-previous enclosure that locks air for a spring-like effect. The result is consistently clear, powerful, wide-ranging bass response. The subwoofer's dual-cone structure maintains better sound linearity and reliability after hours of hard use than conventional subwoofers with "spider" structures to keep the voice coil aligned.



Integrated Single Sided Silver Binding Posts

M-Shape Surround

Double-Stacked Magnets

Ultra-Long Glass Fiber PP (Tinsel Wire Holder)

Top Plate

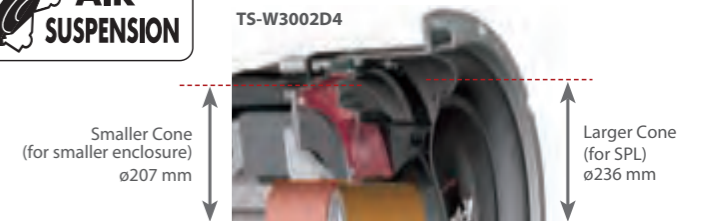
Cone Ring

Dust Cap

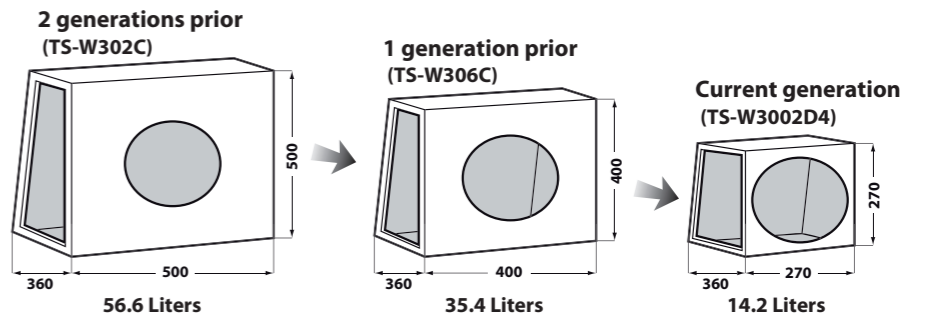
Diaphragm Structure with Sub-Cap

A Spectacular Reduction in Enclosure Volume

In the past, because stronger magnet materials were not available, a fairly large magnetic circuit was required, which contributed to big enclosure volumes. Thanks to the development of stronger magnet materials, it is now possible to create a small-sized magnetic circuit with increased magnetic force. This helped to reduce enclosure volumes. Additionally, several innovative technologies and the use of different materials have enabled to develop the Air Suspension System. The Air Suspension System, which was first used in Pioneer's Shallow-type subwoofers, uses two different-sized cones — a drive cone and an upper cone. The drive cone works as a small-sized speaker in an enclosure volume, while the upper cone delivers the sound pressure, combining the best of both worlds. This has allowed for a substantial reduction in the recommended enclosure volume to unheard of small dimensions without affecting the tight bass reproduction.



Evolution of Enclosure Volumes for 30 cm Subwoofers



Specifications

	TS-W3002D4	TS-W2502D4
Size	30 cm	25 cm
Max. Music Power (Nominal)	3,500 W (1,000 W)	3,000 W (800 W)
Frequency Response	20 Hz to 150 Hz	20 Hz to 150 Hz
Sensitivity (In Car/1 W)	90 dB	89 dB
Impedance	4 Ω x 2	4 Ω x 2
Mounting Depth	189 mm	169 mm
Cut-Out Dimensions	302 mm	255 mm
Recommended Enclosure	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters

For more details, see page 99 (Thiele-Small parameters) and 100 (Enclosures).

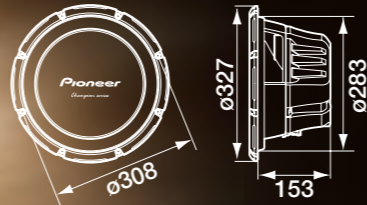
TS-W310D4/S4

1,400 W MAX. NEW 3D HOLOGRAM

30 cm (12") Champion Series Subwoofers
(TS-W310D4: 4 Ω Dual Voice Coil Type/TS-W310S4: 4 Ω Single Voice Coil Type)



Champion series



TS-W260D4/S4

1,200 W MAX. NEW 3D HOLOGRAM

25 cm (10") Champion Series Subwoofers
(TS-W260D4: 4 Ω Dual Voice Coil Type/TS-W260S4: 4 Ω Single Voice Coil Type)



Key Selling Points

- Extreme performance derives from Pioneer's Championship-winning SPL subwoofers.
- The versatile subwoofer lineup provides for various types of installation.

TS-W310

1,000 W MAX. NEW 3D HOLOGRAM

30 cm (12") Champion Series Subwoofer (Multi-Purpose Type)



TS-W309D2

1,400 W MAX. 3D HOLOGRAM

30 cm (12") Champion Series Subwoofer (2 Ω Dual Voice Coil Type)



TS-W304R

1,300 W MAX. 3D HOLOGRAM

30 cm (12") Component Subwoofer



TS-W254R

1,100 W MAX. 3D HOLOGRAM

25 cm (10") Component Subwoofer



TS-W310D4 Cut View

IMPP Composite Seamless Cone

An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's New IMPP Composite Seamless Cones meet this need perfectly.

Drive Cone for Maximizing Sound Pressure Level

Both cones have been restructured and internally reinforced to transmit drive power from the voice coil more directly.

Large Surface Area

Extra-Tough Suspension Design

The suspension is optimally shaped for high durability to withstand high input power.

4-Layer Copper Voice Coil with Aluminum Former

• Aluminum former improves heat dissipation

Single/Dual Voice Coil Design

Pioneer offers single voice coil and dual voice coil designs. Dual 4 Ω subwoofer has the flexibility to be wired at 2 or 8 Ω, to get the most from the amplifier. To allow ease of installation even further, all speaker terminals have been placed on one side of the subwoofer rather than on both sides.

S4 Type
(4 Ω Single Voice Coil)



4 Ω

D4 Type
(4 Ω Dual Voice Coil)

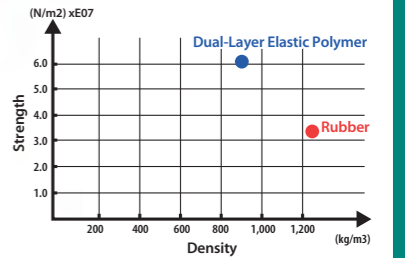


2 Ω or 8 Ω

One Side for Easier Installation!

Dual-Layer Elastic Polymer Surround

- Features the world's first technology of its kind.
- Dramatically improves durability and lightness, for superior response, especially for louder volume.



High Durability despite Lightweight!

Air Vent

The movement of air within the subwoofer is smoothly channeled for optimal ventilation to the benefit of quick response and clear reproduction of bass.

Multi-Purpose Subwoofer — TS-W310

The TS-W310 incorporates Pioneer's Multi-Purpose Subwoofer design for flexible in-car installation as either a free-air-type or box-type enclosure.

Enclosure Use



Free-Air Use

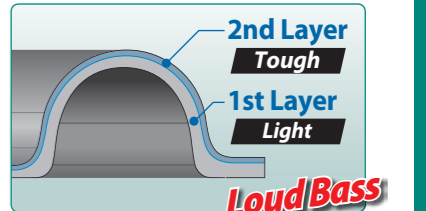


Flexible Installation!

Note: Please refer to page 100 for recommended enclosure.

Dual-Layer Urethane Surround

A combination of various surround materials enhances the range of movement and durability of the surround.



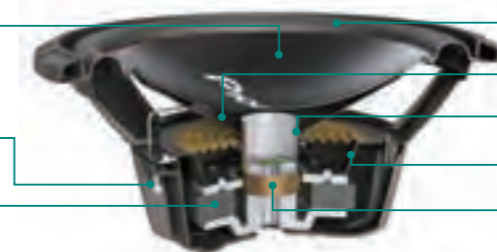
Loud Bass

TS-W304R Cut View

IMPP Composite Seamless Cone (Cross Carbon Figure)

Push Terminals

Large Strontium Magnet



Black Urethane Surround

Lightweight Drive Cone

Aluminum Voice Coil Bobbin

Air Vent

6-Layer Polyester-Resin Coat Voice Coil Wire

Specifications

	TS-W310D4	TS-W310S4	TS-W260D4	TS-W260S4	TS-W309D2	TS-W310	TS-W304R	TS-W254R
Size	30 cm	30 cm	25 cm	25 cm	30 cm	30 cm	30 cm	25 cm
Max. Music Power (Nominal)	1,400 W (400 W)	1,400 W (400 W)	1,200 W (350 W)	1,200 W (350 W)	1,400 W (400 W)	1,000 W (300 W)	1,300 W (300 W)	1,100 W (250 W)
Frequency Response	20 Hz to 250 Hz	20 Hz to 250 Hz	20 Hz to 250 Hz	20 Hz to 250 Hz	20 Hz to 220 Hz	20 Hz to 250 Hz	20 Hz to 220 Hz	20 Hz to 220 Hz
Sensitivity (In Car/1 W)	95 dB	95 dB	93 dB	93 dB	94 dB	95 dB	95 dB	93 dB
Impedance	4 Ω x 2	4 Ω	4 Ω x 2	4 Ω	2 Ω x 2	4 Ω	4 Ω	4 Ω
Mounting Depth	153 mm	153 mm	141 mm	141 mm	153 mm	148 mm	135 mm	127 mm
Cut-Out Dimensions	ø283 mm	ø283 mm	ø235 mm	ø235 mm	ø283 mm	ø278 mm	283 mm	ø235 mm
Recommended Enclosure	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters	18.4 liters to 35.4 liters	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters

For more details, see page 99 (Thiele-Small parameters) and 100 (Enclosures).

TS-SW3001S4

1,500 W MAX.

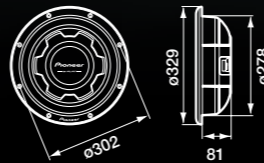
30 cm (12") Shallow-Mount IMPP Component Subwoofer



The Pioneer Shallow Subwoofer won the EISA Award for "European In-Car Subwoofer 2010-2011" in the in-car electronics categories. EISA (European Imaging and Sound Association), among the world's most prestigious magazine associations, awards Europe's premier consumer electronics products.



ib-FLAT



TS-SW3001S2

1,500 W MAX.

30 cm (12") Shallow-Mount IMPP Component Subwoofer



Key Selling Points

- Get deep big bass from a small enclosure.
- Easy to install in virtually any vehicle.

TS-SW2501S2/TS-SW2501S4

1,200 W MAX.

25 cm (10") Shallow-Mount IMPP Component Subwoofers



TS-SW841D

500 W MAX.

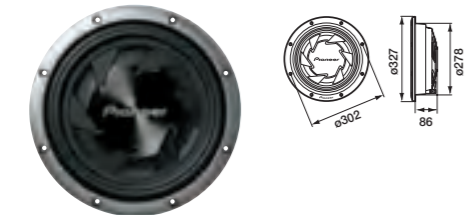
20 cm (8") Shallow-Mount IMPP Component Subwoofer



TS-SW301

1,000 W MAX.

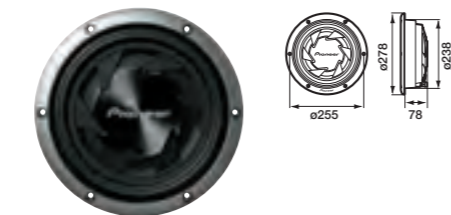
30 cm (12") Shallow-Mount IMPP Component Subwoofer



TS-SW251

800 W MAX.

25 cm (10") Shallow-Mount IMPP Component Subwoofer



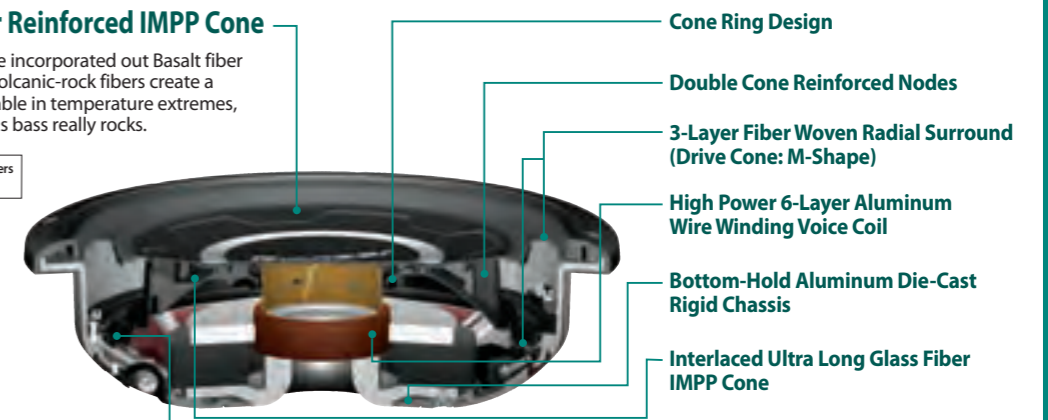
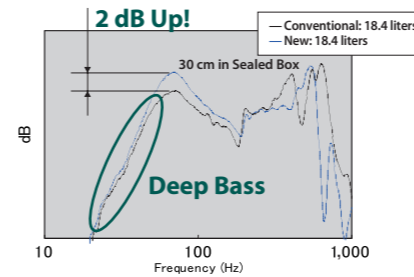
TS-SW3001S2/TS-SW3001S4

Check out the advantages of Pioneer's new shallow subwoofer. Not only does 81 mm mounting depth and 18.4 liters enclosure requirement enhance flexibility of installation in limited spaces—a basalt cone and other innovations reliably deliver extra-loud, deep, satisfying bass.

ib-FLAT

Interlaced Basalt/Carbon Fiber Reinforced IMPP Cone

To ensure that you get more natural bass, we've incorporated our Basalt fiber technology into our shallow subwoofers. The volcanic-rock fibers create a cone that is lightweight, rigid, well damped, stable in temperature extremes, and more environmentally friendly. In short, this bass really rocks.



Air Suspension Excursion Control System

Secret: Enjoy deep big bass from a small enclosure.

In order to create a subwoofer that is 81 mm deep, Pioneer had to develop revolutionary subwoofer technology. A traditional subwoofer uses the spider design to keep the voice coil of the speaker aligned while it moves. This type of set-up can become soft over time degrading the subwoofer's performance.

Pioneer created a patent-pending air suspension system that locks air between a main cone and a drive cone. The cones move together in unison, with the locked-in air behaving like a spring. The dual-cone structure is a spider-less design that maintains better sound linearity, and reliability even after many of hours of hard use. The pressure from the trapped air results in a consistent bass response across a wide frequency range. The result is a tight, precise movement with powerful and clean bass output.



Angled Push Terminals



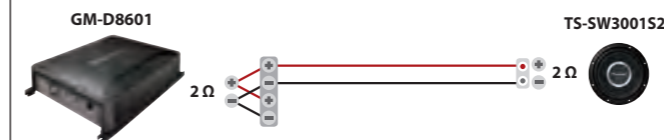
TS-SW3001S4 Back Side

Traditional subwoofer terminals are mounted horizontally or vertically. These mounts force wires to be bent to fit which can be difficult if low-gauge high performance wires are used. The Pioneer shallow subwoofer's patent-pending, angled push terminals make it easy to connect speaker wires. The straighter connection saves space and makes installation easier.

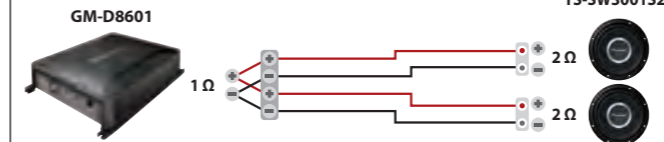
Ultimate Connection Flexibility

TS-SW3001S2

1 Subwoofer as 2 Ω Mono

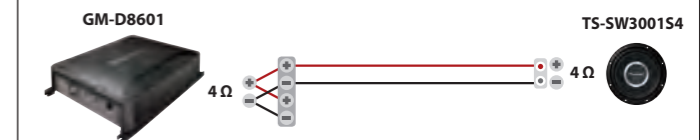


2 Subwoofers as 1 Ω Mono

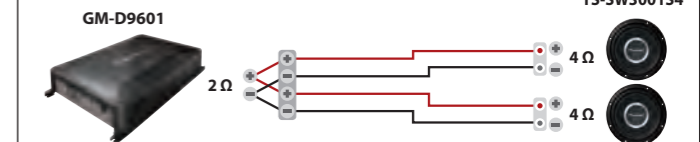


TS-SW3001S4

1 Subwoofer as 4 Ω Mono



2 Subwoofers as 2 Ω Mono



Specifications

	TS-SW3001S2	TS-SW3001S4	TS-SW2501S2	TS-SW2501S4	TS-SW841D	TS-SW301	TS-SW251
Size	30 cm	30 cm	25 cm	25 cm	20 cm	30 cm	25 cm
Max. Music Power (Nominal)	1,500 W (400 W)	1,500 W (400 W)	1,200 W (300 W)	1,200 W (300 W)	500 W (120 W)	1,000 W (250 W)	800 W (200 W)
Frequency Response	20 Hz to 230 Hz	20 Hz to 230 Hz	20 Hz to 290 Hz	20 Hz to 290 Hz	30 Hz to 1,500 Hz	20 Hz to 114 Hz	20 Hz to 144 Hz
Sensitivity (In Car/1 W)	93 dB	93 dB	90 dB	90 dB	85 dB	91 dB	89 dB
Impedance	2 Ω	4 Ω	2 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	81 mm	81 mm	75 mm	75 mm	62.5 mm	86 mm	78 mm
Cut-Out Dimensions	ø278 mm	ø278 mm	ø238 mm	ø238 mm	ø186 mm	ø278 mm	ø238 mm
Recommended Enclosure	9.9 liters to 28.3 liters	9.9 liters to 28.3 liters	9.9 liters to 19.8 liters	9.9 liters to 19.8 liters	4.2 liters to 14.2 liters	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters

For more details, see page 99 (Thiele-Small parameters) and 100 (Enclosures).

TS-WX304T 1,300 W MAX.
30 cm (12") Bass-Reflex Tube Type Subwoofer
• Dimensions (W x H x D): ø345 mm x 669 mm



TS-WX303 1,200 W MAX.
30 cm (12") Bass-Reflex Subwoofer
• Dimensions (W x H x D): 482 mm x 372.6 mm x 366.8 mm



Large Terminal

TS-SWX310 1,000 W MAX.
Shallow Series Preloaded 30 cm (12") Subwoofer Enclosure
• Dimensions (W x H x D): 772 mm x 357 mm x 167 mm



AIR SUSPENSION

Key Selling Points

- Optimal enclosure size for maximum-performance subwoofer sound.
- Instantly installable — there's no need to make an enclosure for the subwoofer.

TS-WX110A 150 W MAX.†
13 cm x 21 cm Sealed Active Subwoofer
• Dimensions (W x H x D): 280 mm x 75 mm x 200 mm



† Output power

TS-WX210A 150 W MAX.†
20 cm (8") Sealed Active Subwoofer
• Dimensions (W x H x D): 250 mm x 118 mm x 265 mm



† Output power

TS-WX206A 150 W MAX.†
20 cm Bandpass Active Subwoofer
• Dimensions (W x H x D): 274 mm x 316 mm x 412 mm



† Output power

Sound Quality Adjustment Knobs

TS-WX20LPA 200 W MAX.†
20 cm Bass-Reflex Active Subwoofer
• Dimensions (W x H x D): 431 mm x 291 mm x 282 mm



† Output power

Key Selling Points

- Built-in amplifier simplifies installation, especially in tight spaces.
- Excellent for enjoying big bass sound, regardless of space limitations.

Technology of TS-WX304T

Tight & Powerful Bass Sound

IMPP Composite Seamless Cone (Cross Carbon Figure)
Pioneer's IMPP Composite Seamless Cones are perfectly designed and made to be very rigid and lightweight in order to maintain unflinching integrity at high sound pressure levels.

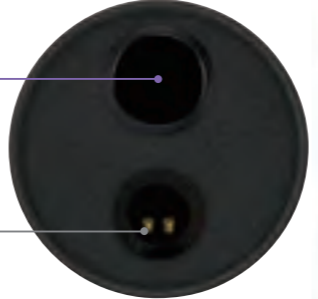
Lightweight Drive Cone

Lightweight material makes for crisp, powerful sound.

Large Strontium Magnet

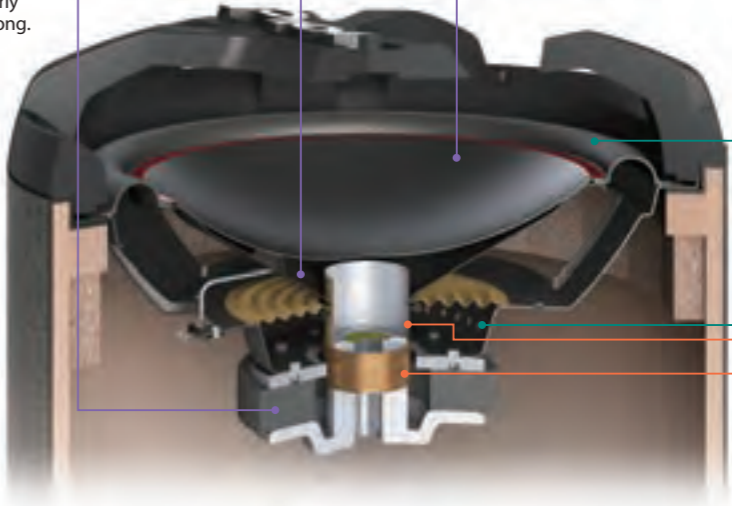
A large magnet enhances the cone's drivability and sensitivity, so the input signal is linearly reproduced as sound that is tight and strong.

Large Port



Gold-Plated Screw Terminals

Grille Design



Black Urethane Surround

Air Vent

Power Handling

Aluminum Voice Coil Bobbin
The voice coil bobbin is made of aluminum which is excellent at dissipating radiant heat for superior power handling.

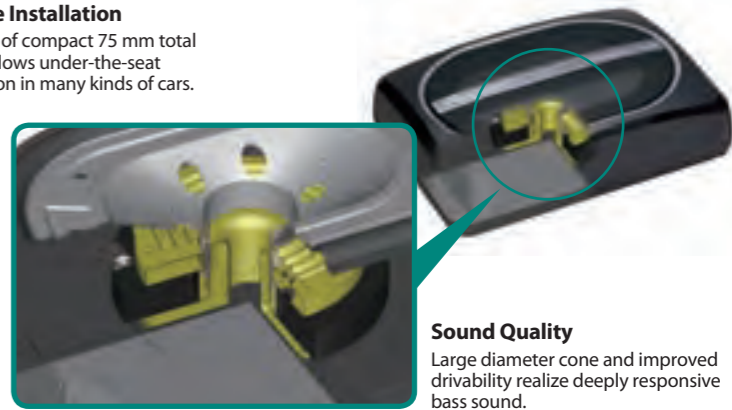
6-Layer Polyester-Resin Coat Voice Coil Wire

The voice coil wire of the TS-WX304T is not just thicker, it is also wound six layers deep for improved force power and maximum input power.

Technology of TS-WX110A

Flexible Installation

A design of compact 75 mm total height allows under-the-seat installation in many kinds of cars.



Sound Quality

Large diameter cone and improved drivability realize deeply responsive bass sound.

Specifications

	TS-WX304T	TS-WX303	TS-SWX310	TS-WX110A	TS-WX210A	TS-WX206A	TS-WX20LPA
Size	30 cm	30 cm	30 cm	13 cm x 21 cm	20 cm	20 cm	20 cm
Max. Music Power (Nominal)	1,300 W (300 W)	1,200 W (250 W)	1,000 W (250 W)	150 W ⁽¹⁾ (50 W ⁽²⁾)	150 W ⁽¹⁾ (50 W ⁽²⁾)	150 W ⁽¹⁾ (60 W ⁽²⁾)	200 W ⁽¹⁾ (100 W ⁽²⁾)
Frequency Response	10 Hz to 360 Hz	10 Hz to 220 Hz	20 Hz to 114 Hz	40 Hz to 200 Hz	37 Hz to 200 Hz	35 Hz to 200 Hz	25 Hz to 200 Hz
Sensitivity (In Car/1 W)	98 dB	98 dB	91 dB	101 dB	102 dB	107 dB	106 dB
Impedance	4 Ω	4 Ω	4 Ω	—	—	—	—

(1) Maximum output power (2) Nominal output power

OPEN & SMOOTH™

Pioneer's Sound Concept: Open & Smooth

The "Open & Smooth" sound of Pioneer's industry-leading speakers delivers both sonic excellence and performance. The open-staging and smooth transition of driver response makes for an immersive experience that is truly the ultimate in-car sound.

Pioneering An Ideal

Absolute fidelity to musical sources takes form from speakers that reproduce the ambience in which sounds originate. Stage size, musicians' movement, aural reflection and other distinctive details all bring these sounds to life.

What is "Open & Smooth"?

Like a smooth, open road, the journey to more perfect in-car sound treats passengers to dramatic sensations moving with natural, dynamic flow.

Open: Open staging and sound characteristics enhance the widening effect that extends way beyond the space between speakers.

Smooth: With smooth transitions between mid-bass and tweeter, sound from these speakers is not marred by crossover frequency dips.

Why "Open & Smooth"?

Only by pursuing this ideal can we realize "accurate mid-range sound reproduction" and "music that lacks for nothing, with flat response".

How "Open & Smooth"?

Pioneer's approach to ideal sound relies on a foundation of "Smoother Off-Axis Response", "Low Crossover Frequency", "Low Distortion" and "Rigid and Light weight cone structure".

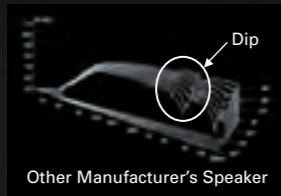
Smoother Off-Axis Response

Superior Directivity: Pioneer PRS Speakers

Pioneer PRS speakers always maintain more open, smooth, expansive, multidimensional sound, without the dramatic dips and inconsistencies that lesser speakers can produce.



Pioneer PRS Speaker

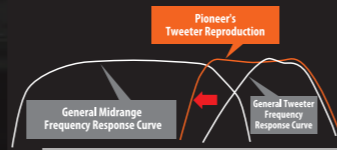


Other Manufacturer's Speaker

Low Crossover Frequency

Wider Response, Lower Crossover Point

Pioneer extends tweeter performance to much lower frequencies, creating fuller midrange fidelity and clear, accurate vocals.



Low Distortion

Pioneer speaker innovations to suppress distortion include revolutionary rigid yet lightweight IMPP cones that significantly reduce mid-to-low range distortion and reproduce sound staging to natural effect.

OPEN & SMOOTH™

TS-C172PRS

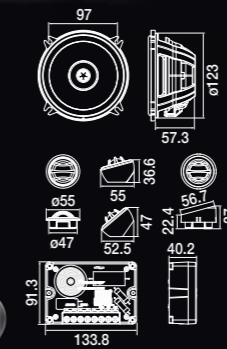
17 cm Component Speaker Package

OPEN & SMOOTH™



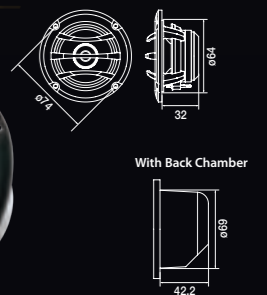
TS-C132PRS

13 cm Component Speaker Package



TS-S062PRS

66 mm Component Midrange Speaker



Key Selling Points

- Audiophile-grade speakers designed to stunningly recreate the musical performance in exact detail.
- Meticulous attention to detail in the materials and craftsmanship ensure the most subtle musical nuances are reproduced with extraordinary accuracy.
- New midrange component delivers amazing clarity to male and female vocal range.

The New Reference in Audio Excellence: The PRS 4-Way System

Complete your state-of-the-art system using the PRS 4-way speaker setup. Utilize the midrange along with one of the component speaker packages, and setup & adjust it all with the DEX-P99RS. This system results in truly spectacular imaging & staging, as the main male & female vocal ranges are covered by one driver (the midrange).

Pioneer Official 3D Hologram

Pioneer 3D hologram sticker is attached to product packaging carton for some models of Pioneer speakers*.



* In this Dealer Reference Guide, particular speakers and 3D hologram logo appear as in examples below. The product that has a 3D hologram sticker attached to its packaging carton features this logo on product page. Please see product page for more details.

TS-A6995S 600 W MAX. NEW

6" x 9" 5-Way Speaker



PRS Speaker Cut View — Tweeter

Smooth Off-Axis Response

Soft-Dome Diaphragm

The FEM (Finite Element Method) designed dome allows wide sound dispersion with flat & even response.

Sound Absorbing Material

Absorbs the back wave reflection from the moving tweeter diaphragm, preventing phase shifts or frequency cancellation-producing a smoother, more linear sound.

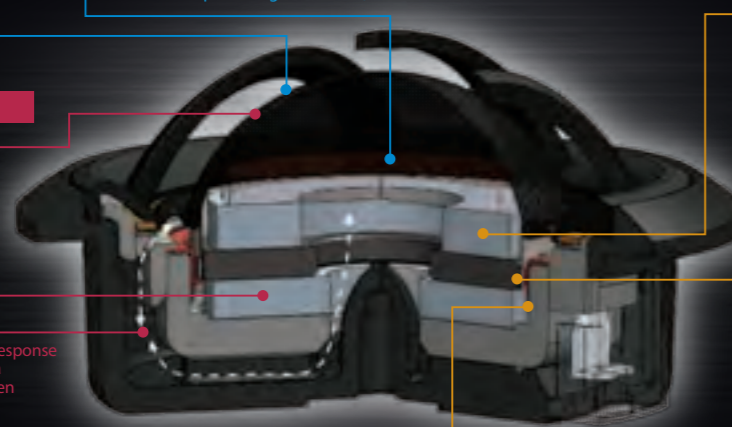
Lower Crossover Frequency

28 mm Large Sized Diaphragm

Main Magnet

Back Chamber

By utilizing a sealed rear cavity, low-end response of the tweeter is extended - allowing for a smoother transition infrequencies between tweeter and midrange.



OFC Short Ring

Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

Low Distortion

Canceling Magnet

Reinforces the magnetic flux density to provide greater control and precisely linear performance.

PCOCC®* Voice Coil Wire

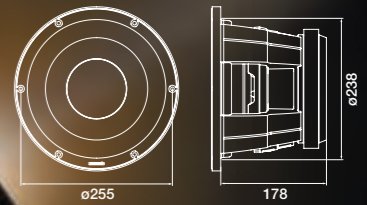
The purity of the copper in voice coil wire plays a significant role in sound quality, which is why the use of OFC (Oxygen-Free Copper) is a common practice. But for a Pioneer PRS speaker that isn't good enough. Pioneer features the world's-first use of the pure crystal casting process (PCOCC) in a voice coil wire. This "five nines" purity (99.9997%, compared to OFC's 99.99%) results in wires with superior conductivity, lower electrical resistance and reduced skin effect.

* PCOCC is registered trademark of Furukawa Electric Co., Ltd.



TS-W252PRS

25 cm (10") Component PRS Subwoofer



Key Selling Point

• High sensitivity, unmatched linearity and superior speed designed to create the epitome of detailed, accurate and impactful bass reproduction.

PRS Speaker Cut View — Woofer

High Linearity Sound

Linear Moving Force System for ultra low distortion and high definition in bass sound.

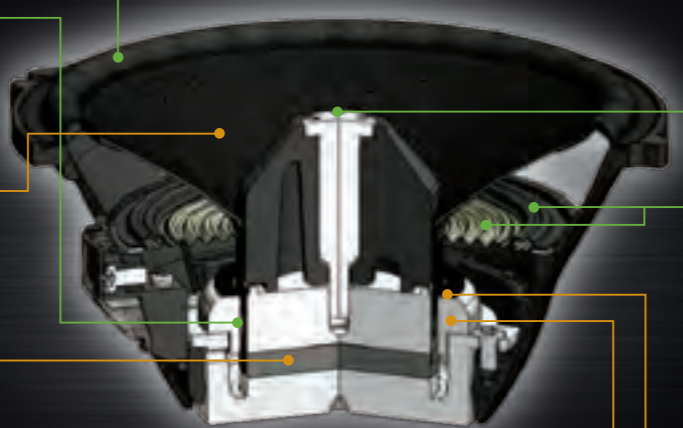
Micro Fiber Surround: Maximum Musical Response

The high-density micro fiber material surrounding the woofer of a PRS speaker is very light and low internal loss characteristics. The Micro Fiber Surround realizes faster response and more accurate bass reproduction that allows all music to be heard to greatest advantage.

Voice Coil with Short-Winding Length

Short voice coil (underhung design) provides maximum control with very light weight, providing high sensitivity and superior musical detail.

2nd Generation Multi-Layer IMX (Injection Molded Matrix) Cone



Inside Magnetic Type with Neodymium Magnet

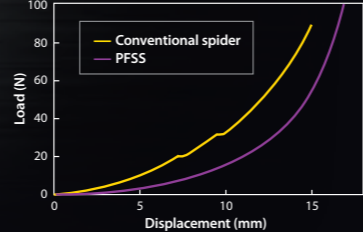
AL/Brass Dual Metal Center Plug

Two different metals combine to reduce resonance.

Progressive Flex Suspension System (PFSS)

Most spiders are all brawn and no brains, but Pioneer's PFSS is a "smart spider" that adapts to your music dynamically. When listening to soft music, it delivers the detail and fast response required, but when the big crescendo hits, it provides the precise control as well as the long excursion required for exceptional sound quality.

Spider Displacement of Static Load



Low Distortion

OFC Short Ring

Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

Overhung Top Plate

Focuses the magnetic field towards the voice coil.

TS-W252PRS Cut View

Corrugated Surround

Aramid Fiber (Conex) with Rubber Coating

OFC Short Ring

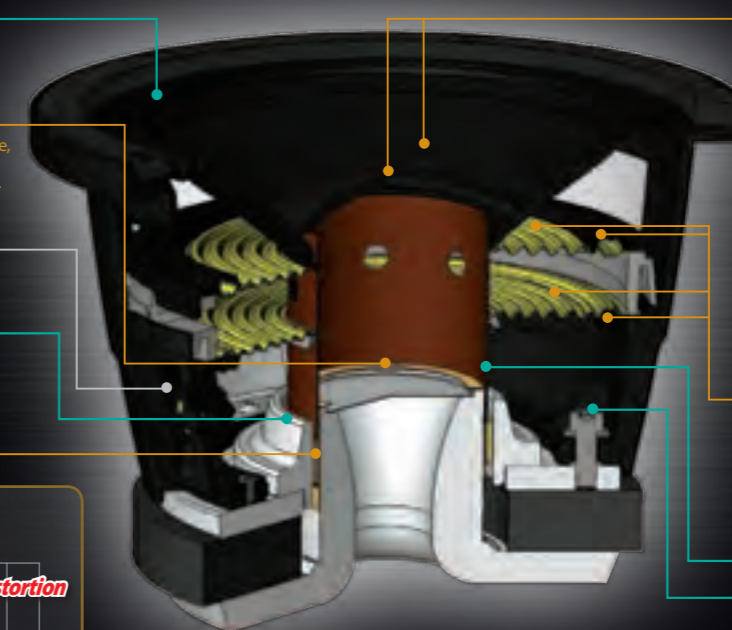
Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

Block Terminal (Gold-Plated)

*Accepts up to 4 AWG Cable

Overhung (Thick) Plate 35 mm

Short Voice Coil



Sound Quality and Reliability

Rigid and Light weight Cone and Cap structure realizes both reliability and high speed sound.

Three layer design creates feather-weight cone with exceptional strength

- Aramid Fiber surface layer
- Foamed PP core
- Glass Fiber reinforcement layer

Progressive Flex Suspension System (PFSS)

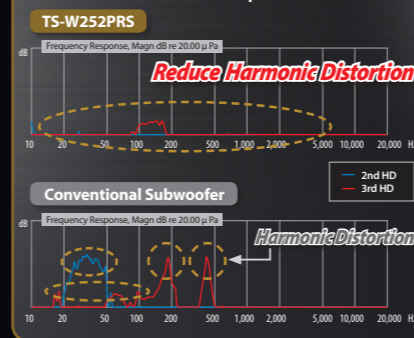
It delivers the detail and fast response required, but when the big crescendo hits, it provides the precise control as well as the long excursion required for exceptional sound quality.

Massive 75 mm Diameter Voice Coil

AL-Diecast Basket

Eliminates ringing and unwanted resonances.

Harmonic Distortion Comparison



Usually when BL is high, impedance rises, decreasing sensitivity and degrading the mid-bass connection. New PRS improves with application of the appropriate magnetic circuit and adjustments to thickness of Cu ring and voice coil design.



Installation Capability Improvement!!

New inner-magnet design with Neodymium magnet allows the basket structure to be significantly smaller, and allows the woofer to fit easier into many doors - avoiding obstructions like window rails.

	TS-C172PRS	TS-C132PRS	TS-S062PRS	TS-W252PRS
Size	17 cm 28 mm*	13 cm 28 mm*	66 mm	25 cm
Max. Music Power (Nominal)	200 W (50 W)	150 W (30 W)	200 W (50 W)** 60 W (15 W)***	800 W (400 W)
Frequency Response	25 Hz to 35 kHz	30 Hz to 35 kHz	48 Hz to 40 kHz	20 Hz to 2,400 Hz
Sensitivity (1 W/1 m)	89 dB	86 dB	84 dB	84 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	2,300 Hz	2,200 Hz	—	—
Mounting Depth	67 mm 13.4 mm*	57.3 mm 13.4 mm*	32 mm 42.2 mm****	178 mm
Mounting Depth with Mount Adapter	16 cm: 55 mm	—	—	—
Cut-Out Dimensions	ø142 mm	ø123 mm	ø64 mm ø69 mm****	ø238 mm
Recommended Enclosure	—	—	—	28.3 liters

* Tweeter specification ** With back chamber, 800 Hz, -12 dB/oct. HPF *** Without back chamber, 400 Hz, -12 dB/oct. HPF **** With back chamber

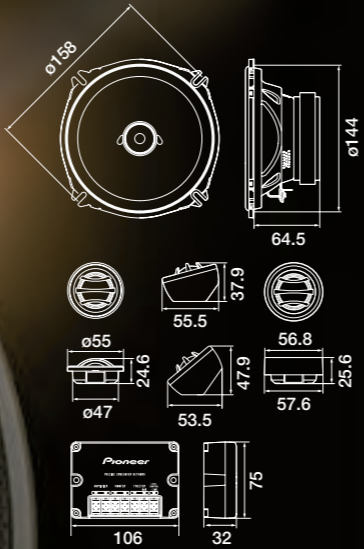
TS-D1720C

260 W MAX.

17 cm Component Speaker Package



OPEN & SMOOTH™



Mounting Depth with Mount Adapter:
• 16 cm: 51.5 mm

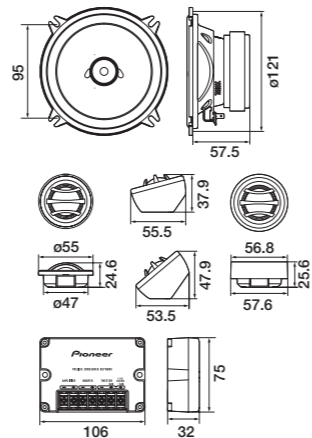
Key Selling Points

- Revolutionary Basalt Fiber IMX speaker cones provide ideal strength and durability to deliver amazing sound.
- Included crossover network unit uses audiophile-grade components for exceptional fidelity.
- Available in 2-way components or coaxial designs to fit most vehicles.

TS-D1320C

180 W MAX.

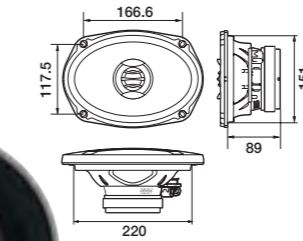
13 cm Component Speaker Package



TS-D6902R

360 W MAX.

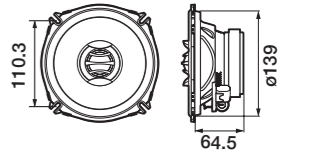
6" x 9" 2-Way Speaker



TS-D1702R

280 W MAX.

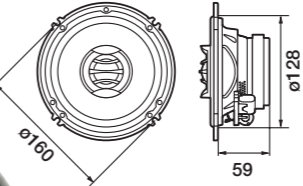
17 cm 2-Way Speaker



TS-D1602R

260 W MAX.

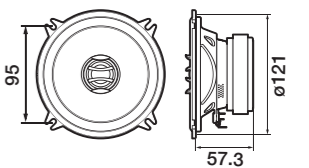
16 cm 2-Way Speaker



TS-D1302R

180 W MAX.

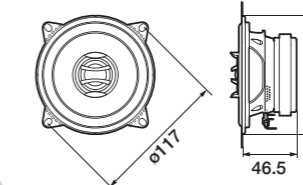
13 cm 2-Way Speaker



TS-D1002R

110 W MAX.

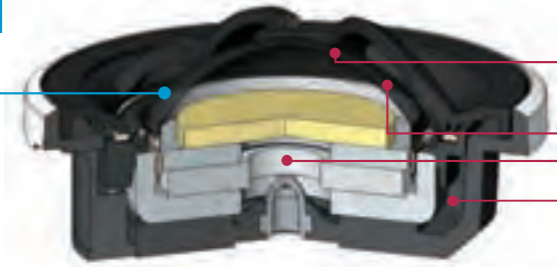
10 cm 2-Way Speaker



Technology of a D-Series Speaker

Smooth Off-Axis Response

Optimal Choice of Tweeter Diaphragm Shapes



Lower Crossover Frequency

28 mm Dia. Large-Sized Tweeter Diaphragm

Light Weight Soft-Dome Diaphragm

Rear Chamber

High-Quality Passive Crossover Network (Woofer, LPF: -12 dB/ Tweeter, HPF: -12 dB)

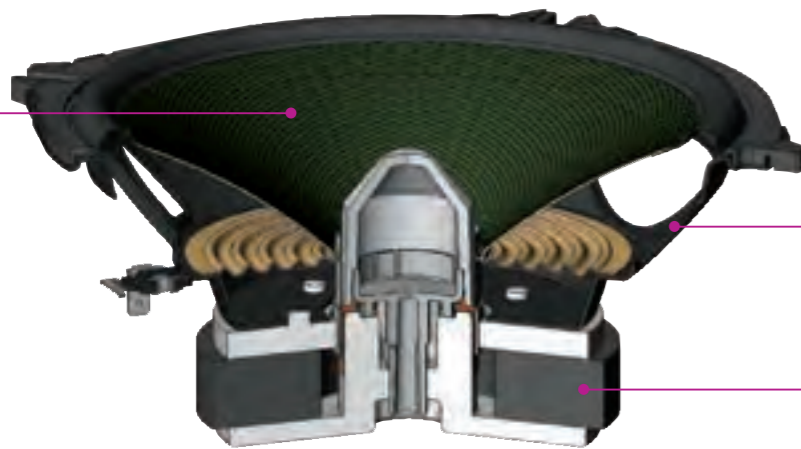


Large air core coil eliminates signal transmission loss.

Improved Installation Flexibility—Tweeter Mounting Options



Integrating aftermarket speakers into a vehicle's interior is as much about sound quality as it is about aesthetics. Now, thanks to Pioneer, there's no longer a trade-off between better sound and an unsightly tweeter location. As a growing number of today's vehicles come equipped with factory tweeter locations, Pioneer has designed an invisible mount spacer that allows the Pioneer tweeter to be installed in the factory tweeter location behind the grille. For those customers who want more control over tweeter placement, the tweeters can also be flush mounted or surface mounted with the supplied hardware.



Low Distortion

Thick Woofer Basket

Large-Sized Woofer Magnet

Dual-Layer IMX (Injection Molded Matrix) Aramid/Basalt Fiber Composite Cone

To create TS-D series speakers, Pioneer developed the industry's first basalt fiber made from natural rock interwoven with aramid fiber. Used in the surface layer, this Aramid/Basalt Fiber material is highly rigid and better absorbent, enhancing stability and maintaining integrity throughout a wide temperature range.

Together, the Dual-Layer IMX Aramid/Basalt Fiber and IMPP Composite Cone provide for outstanding low and mid bass range fidelity, low distortion as well as extraordinarily detailed, accurate sound reproduction.

Natural Basalt

Melted and Spun

Microscopic Cross Section View

- Aramid/Basalt Fiber Skin with Ceramic Coating**
 - Reproduces lively sound
 - Disperses resonance
- Composite Foamed IMPP**
 - Better transience in low and mid-low range
 - Better rigidity and velocity
 - Light weight for better response

INJECTION MOLDED CONE

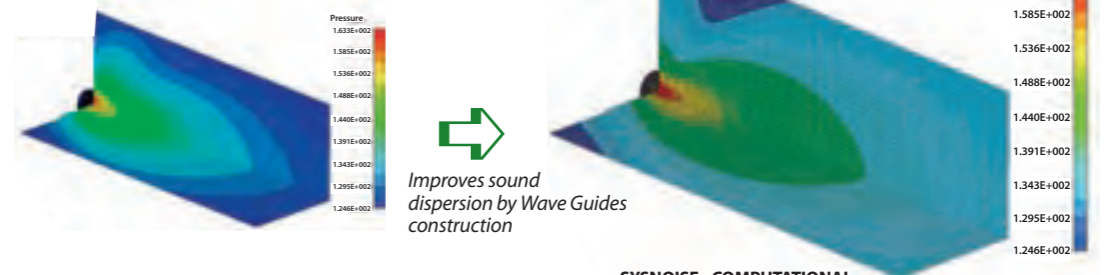
Technology of a D-Series Speaker

Smooth Off-Axis Response



Wave Guides

Controls sound dispersion to make sound stage wider in the car.



Low Distortion

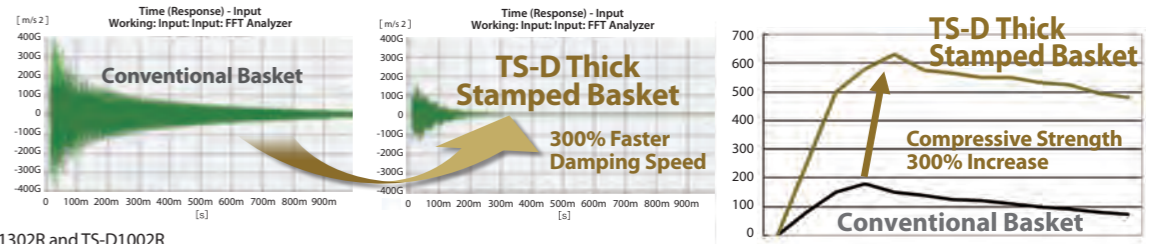
Dual-Layer IMX (Injection Molded Matrix) Aramid/Basalt Fiber Composite Cone

Large-Sized Woofer Magnet

Thick Woofer Basket



Thick stamped basket to prevent distortion.



Note: Except for TS-D1320C, TS-D1302R and TS-D1002R

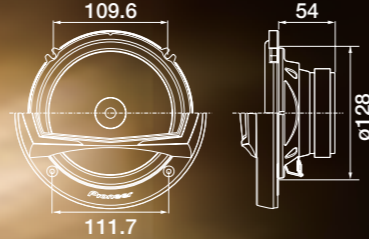
Specifications

	TS-D1720C	TS-D1320C	TS-D6902R	TS-D1702R	TS-D1602R	TS-D1302R	TS-D1002R
Size	17 cm, 28 mm*	13 cm, 28 mm*	6" x 9"	17 cm	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	260 W (60 W)	180 W (35 W)	360 W (80 W)	280 W (60 W)	260 W (60 W)	180 W (35 W)	110 W (25 W)
Frequency Response	30 Hz to 33 kHz	35 Hz to 33 kHz	28 Hz to 30 kHz	30 Hz to 32 kHz	35 Hz to 32 kHz	35 Hz to 40 kHz	40 Hz to 40 kHz
Sensitivity (1 W/1 m)	88 dB	88 dB	90 dB	88 dB	88 dB	88 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	≥2,800 Hz (with -12 dB)	≥2,800 Hz (with -12 dB)	2,800 Hz	3,200 Hz	4,000 Hz	6,000 Hz	6,000 Hz
Mounting Depth	64.5 mm 12.2 mm*	57.5 mm 12.2 mm*	89 mm	64.5 mm	59 mm	57.3 mm	46.5 mm
Mounting Depth with Mount Adapter	16 cm: 51.5 mm	—	—	—	—	—	—
Cut-Out Dimensions	ø144 mm	ø121 mm	151 mm x 220 mm	ø139 mm	ø128 mm	ø121 mm	ø106 mm

* Tweeter specification

TS-A1605C 350 W MAX. NEW

16 cm Component Speaker Package

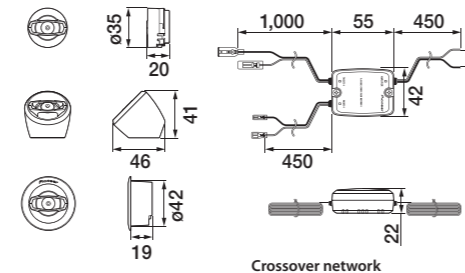
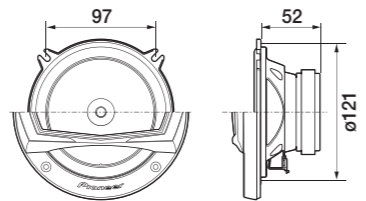


Key Selling Points

- Loud and Clear performance delivering an energetic listening experience.
- A high efficiency Multilayer Mica Matrix cone design along with a more aggressive motor structure delivers the ultimate listening experience at any volume level.
- Available in 2-way component (with external crossover) or coaxial design in multiple sizes to fit most vehicles.

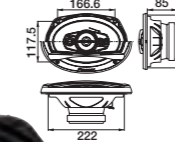
TS-A1305C 300 W MAX. NEW

13 cm Component Speaker Package



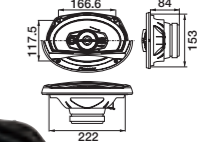
TS-A6995S 600 W MAX. NEW HOLOGRAM

6" x 9" 5-Way Speaker



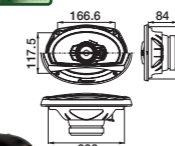
TS-A6985S 550 W MAX. NEW HOLOGRAM

6" x 9" 4-Way Speaker



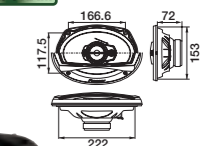
TS-A6975S 500 W MAX. NEW HOLOGRAM

6" x 9" 3-Way Speaker



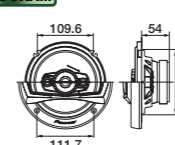
TS-A6965S 400 W MAX. NEW HOLOGRAM

6" x 9" 3-Way Speaker



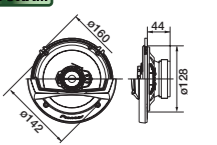
TS-A1685S 350 W MAX. NEW HOLOGRAM

16 cm 4-Way Speaker



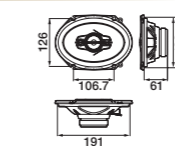
TS-A1675S 300 W MAX. NEW HOLOGRAM

16 cm 3-Way Speaker



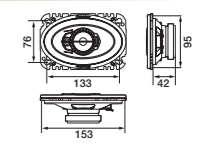
TS-A6885R 350 W MAX. NEW

6" x 8" 4-Way Speaker



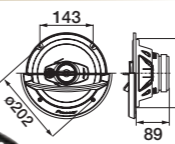
TS-A4675R 200 W MAX. NEW

4" x 6" 3-Way Speaker



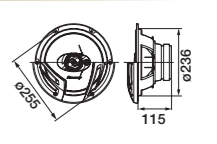
TS-A2013i 500 W MAX.

20 cm 3-Way Speaker



TS-A2503i 420 W MAX.

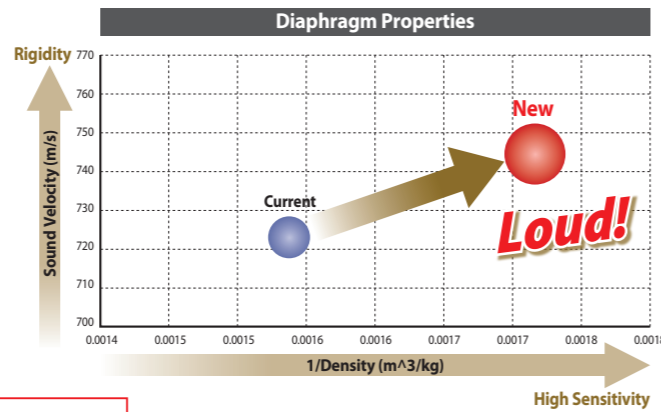
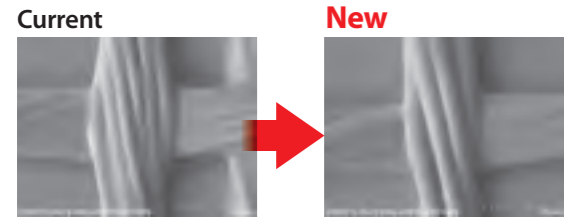
25 cm 3-Way Speaker



Technology of an A-Series Speaker

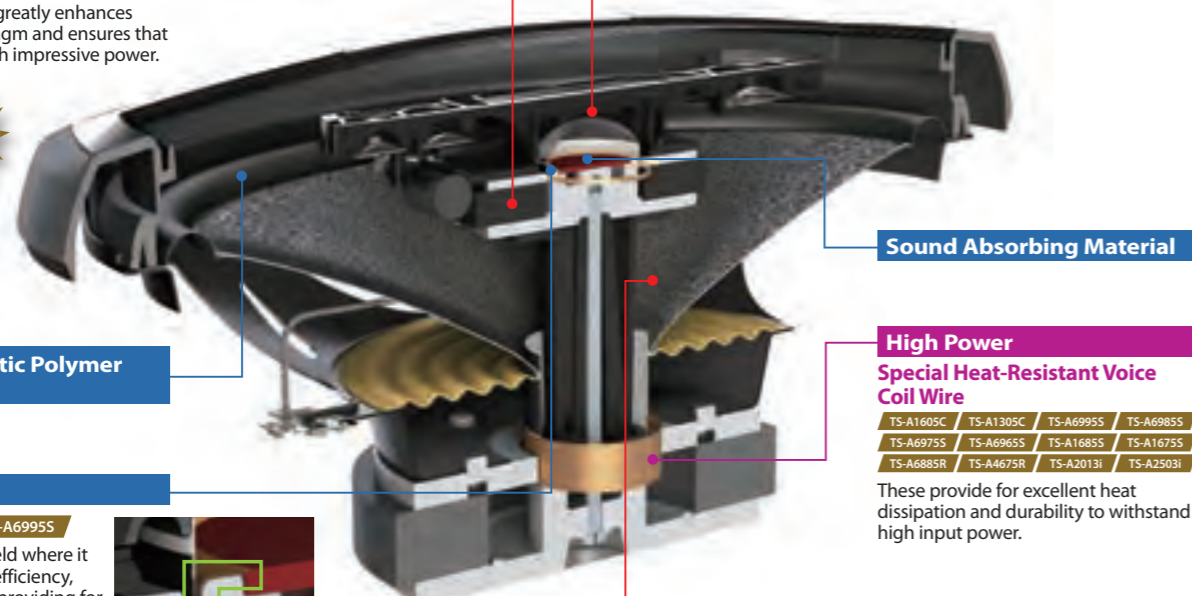
TS-A6995S Cut View

Loud & Clear
Light Diaphragm TS-A1605C / TS-A1305C / TS-A6995S / TS-A6985S / TS-A1685S
 Even its fiber is optimized to balance lightness and rigidity, so that the diaphragm achieves outstanding sound propagation with high sensitivity, speed and responsiveness.



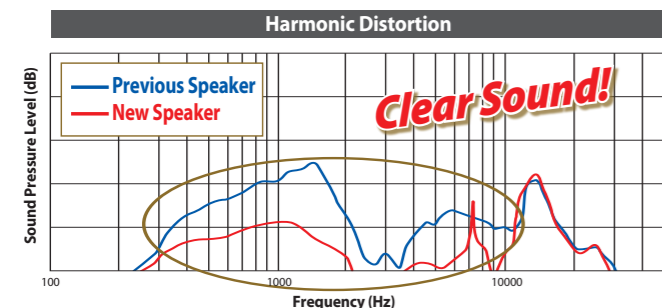
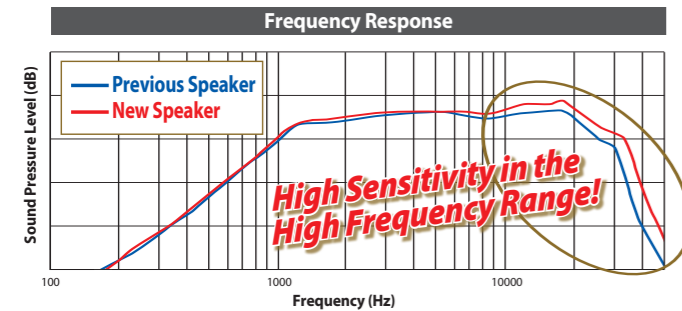
Loud & Clear
 A much bigger magnet greatly enhances drivability of the diaphragm and ensures that sound is reproduced with impressive power.

TS-A6995S
67% Bigger Magnet Size

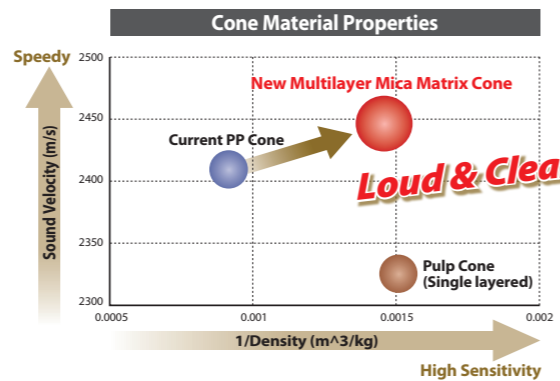


Light Weight Elastic Polymer Surround

Low Distortion
OFC Short Ring TS-A6995S
 Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.



Loud & Clear
Multilayer Mica Matrix Cone TS-A1605C / TS-A1305C / TS-A6995S / TS-A6985S / TS-A6975S / TS-A6965S / TS-A1685S / TS-A1675S / TS-A6885R / TS-A4675R / TS-A2013i / TS-A2503i
 Various materials were carefully combined to develop a diaphragm of extra lightness and rigidity to reproduce sound clearly with outstanding responsiveness, sensitivity and a suitable degree of internal loss.



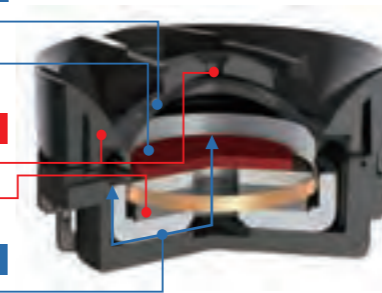
Microscopic Image of Multilayer Mica Matrix Cone
 A surface containing mica properly maintains the cone's superior rigidity and internal loss. The back makes excellent use of light, water-resistant material.



Technology of an A-Series Speaker

TS-A1605C Cut View

Smooth Off-Axis Response
Soft-Dome Diaphragm
Sound Absorbing Material
Loud & Clear
Wave Guide Focusing Design
Neodymium Magnet
Low Crossover Frequency
Large Cavity

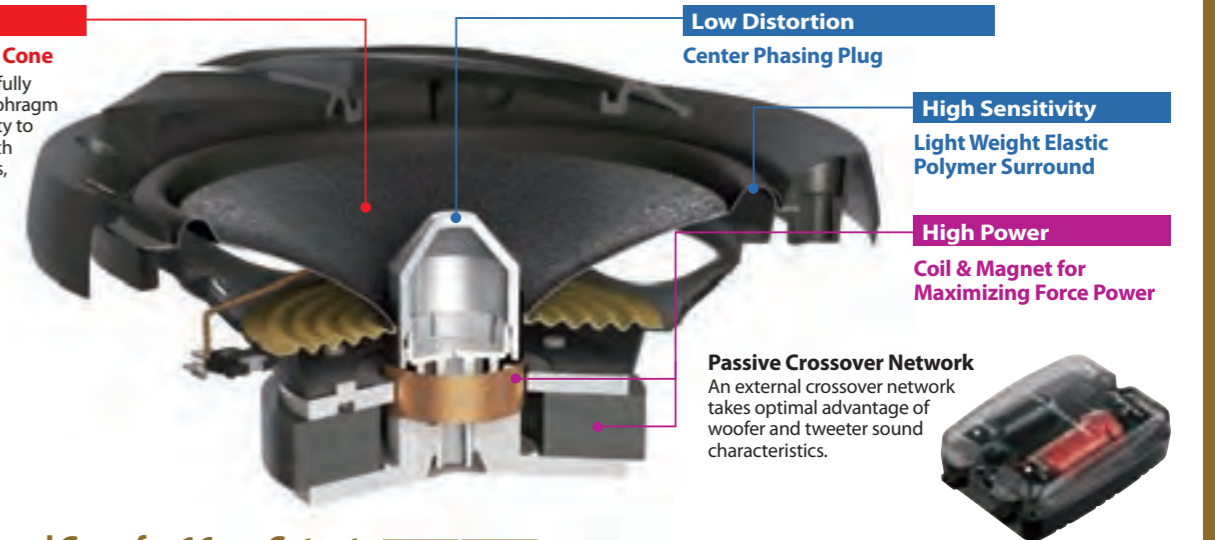


Installation Flexibility — Tweeter Mounting Options*
 * Please refer to page 76 for details.

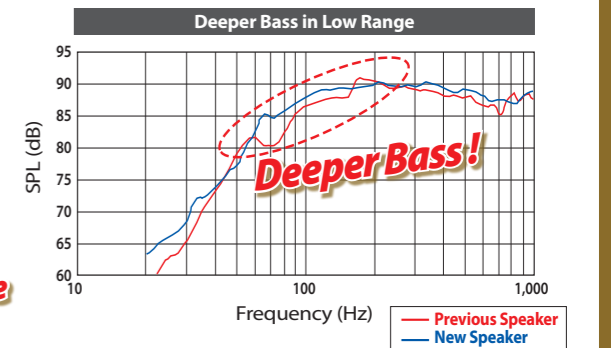
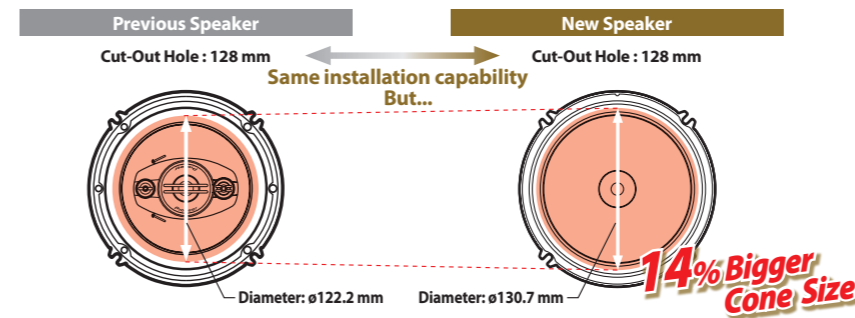


This newly developed tweeter disperses sound more widely with superior control, providing listeners with the best sound under all conditions, regardless of listening position or car.

Loud & Clear
Multilayer Mica Matrix Cone
 Various materials were carefully combined to develop a diaphragm of extra lightness and rigidity to reproduce sound clearly with outstanding responsiveness, sensitivity and a suitable degree of internal loss.



Larger-Than-Normal Cone for 16 cm Cutout TS-A1605C / TS-A1685S
 New speakers have bigger cones than, but same cut-out dimensions to previous speakers. The result is deeper low-range sound reproduction.



Specifications

	TS-A1605C	TS-A1305C	TS-A6995S	TS-A6985S	TS-A6975S	TS-A6965S
Size	16 cm	13 cm	6" x 9"	6" x 9"	6" x 9"	6" x 9"
Max. Music Power (Nominal)	350 W (60 W)	300 W (50 W)	600 W (100 W)	550 W (100 W)	500 W (90 W)	400 W (60 W)
Frequency Response	34 Hz to 32 kHz	48 Hz to 32 kHz	27 Hz to 37 kHz	27 Hz to 37 kHz	28 Hz to 24 kHz	35 Hz to 37 kHz
Sensitivity (1 W/1 m)	90 dB	89 dB	92 dB	91 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	54 mm	52 mm	85 mm	84 mm	84 mm	72 mm
Cut-Out Dimensions	ø128 mm	ø121 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm

	TS-A1685S	TS-A1675S	TS-A6885R	TS-A4675R	TS-A2013i	TS-A2503i
Size	16 cm	16 cm	6" x 8"	4" x 6"	20 cm	25 cm
Max. Music Power (Nominal)	350 W (60 W)	300 W (50 W)	350 W (60 W)	200 W (30 W)	500 W (80 W)	420 W (80 W)
Frequency Response	34 Hz to 30 kHz	35 Hz to 31 kHz	31 Hz to 42 kHz	39 Hz to 39 kHz	25 Hz to 28 kHz	20 Hz to 31 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	90 dB	88 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	54 mm	44 mm	61 mm	42 mm	89 mm	115 mm
Cut-Out Dimensions	ø128 mm	ø128 mm	191 mm x 133 mm	95 mm x 153 mm	ø186 mm	ø236 mm

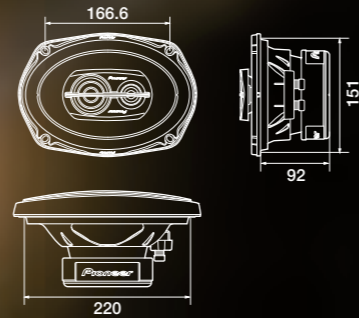
* Tweeter specification

TS-6975 V2

500 W MAX. 3D HOLOGRAM

Champion series

6" x 9" 3-Way Champion Series Speaker



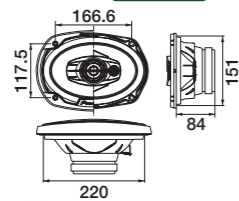
Key Selling Points

- Inherits technology from Champion series subwoofer for powerful, punchy sound.
- PEEK film cone creates vivid, crisp sound. (TS-6975 V2/TS-1675 V2)
- Basket design for wider installation coverage, without compromising high power input capability. Although the TS-1675 V2 is designated as a 16 cm installation size speaker, its cone is actually 17 cm in size, for more powerful sound.

TS-6965 V2

400 W MAX. 3D HOLOGRAM

6" x 9" 3-Way Champion Series Speaker

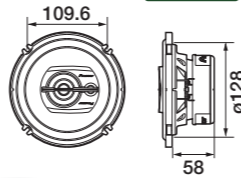


TS-1675 V2

300 W MAX. 3D HOLOGRAM

16 cm* 3-Way Champion Series Speaker

* 16 cm installation size speaker actually contains 17 cm cone size for more powerful sound.



Technology of a Champion Series Speaker

TS-6975 V2 Cut View

- Polycarbonate Sub-Grille
- PI Film Spider
- Film Cone Tweeter

Punchy Bass High Sensitivity

TS-6975 V2 TS-6965 V2 TS-1675 V2

Rigid, Light Non-Pressed Paper Cone

Pioneer carefully selects materials and applies a non-pressed paper process — giving these new cones the light, rigid qualities needed to create punchy, powerful sound, plus extra durability to go to the limit.

Gold-Plated Screw Terminal

TS-6975 V2 TS-6965 V2* TS-1675 V2*

* Not screw-type terminal

Rubber Magnet Cover*

* Magnet cover is removable.

Punchy Bass

Dual Layer Urethane Surround

TS-6975 V2 TS-6965 V2 TS-1675 V2

Improves cone stiffness. Greatly reduces unnecessary resonance that can compromise sound quality.

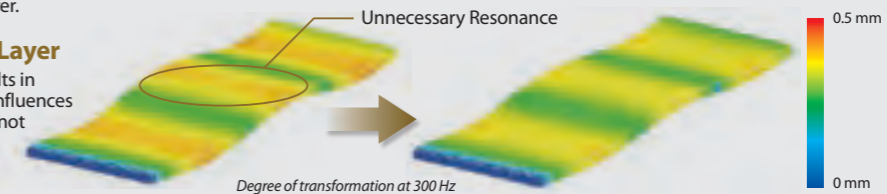
Champion Series Speaker Cross Section Detail



Dual-Layer Surround technology originally for the Champion series subwoofer.

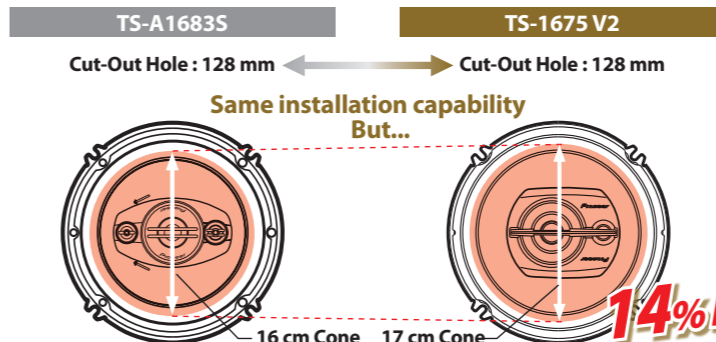
Conventional Single Layer

Wave-like cone vibration results in unnecessary resonance that influences tonal quality, so this cone cannot reproduce original sound linearly.



Larger-Than-Normal Cone for 16 cm Cutout

The TS-1675 V2 can be installed in a 16 cm- or 17 cm-diameter cutout hole. Superior bass response comes from a cone diameter larger than that of a conventional 16 cm speaker. Shallow basket depth enhances versatility of installation



High Sensitivity

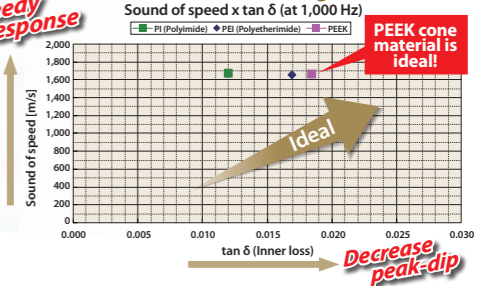
TS-6975 V2 TS-1675 V2

PEEK Film Cone with Urethane Surround

New PEEK (Polyetheretherketon) cone material has excellent characteristics of rigidity and durability, even when subjected to heat. This contributes to sharp response (especially across the mid- to high-frequency range) and vivid sound reproduction.

PEEK Cone Midrange

Sound of speed x tan δ (at 1,000 Hz)



Copper-Clad Aluminum Wire Voice Coil

Lightweight Copper-Clad Aluminum Wire Voice Coil allows for faithful reproduction of louder sounds.

Upper Urethane Surround

Suppresses unwanted peaks and dips in the high-frequency range

Lower Urethane Surround

Reinforces strength and durability

New Dual Layer

Minimizes unnecessary cone resonance for higher cone durability and clearer sound.

Specifications

	TS-6975 V2	TS-6965 V2	TS-1675 V2
Size	6" x 9"	6" x 9"	16 cm
Max. Music Power (Nominal)	500 W (80 W)	400 W (80 W)	300 W (50 W)
Frequency Response	30 Hz to 25 kHz	30 Hz to 22 kHz	35 Hz to 20 kHz
Sensitivity (1 W/1 M)	92 dB	93 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω
Mounting Depth	92 mm	84 mm	58 mm
Cut-Out Dimensions	151 mm x 220 mm	151 mm x 220 mm	ø128 mm

TS-G1604C 280 W MAX.

16 cm Component Speaker Package

INJECTION MOLDED CONE HOLOGRAM

113 42
15 36.3 46 37
1,200 300 300
Crossover network

Technology of a G-Series Speaker

TS-G1604C Cut View

- IMPP with MICA Cone
- Poly-Propylene Center Cap
- Grille Design
- Rubber Coated Cloth Surround
- PEI (Poly-Ether Imide) Balanced Dome Tweeter with Neodymium Magnet and Magnetic Fluid
- New Design Flange with Spin Pattern
- Installation Flexibility
- Slant Type
- Optimized Magnetic Circuit
- Polyimide Voice Coil Bobbin
- Heat Resistant Voice Coil

TS-G1644R Cut View

- IMPP with MICA Cone
- PEI (Poly-Ether Imide) Balanced Dome Tweeter with Magnetic Fluid
- Grille Design
- Rubber Coated Cloth Surround
- New Design Flange with Spin Pattern
- Optimized Magnetic Circuit
- Polyimide Voice Coil Bobbin
- Heat Resistant Voice Coil

TS-G1644R 250 W MAX.

16 cm 2-Way Speaker

INJECTION MOLDED CONE HOLOGRAM

113 42
128

TS-G1344R 220 W MAX.

13 cm 2-Way Speaker

INJECTION MOLDED CONE HOLOGRAM

97 46
121

TS-G1044R 200 W MAX.

10 cm 2-Way Speaker

INJECTION MOLDED CONE HOLOGRAM

97 43
106

TS-G1614R 230 W MAX.

16 cm Dual-Cone Speaker

INJECTION MOLDED CONE HOLOGRAM

113 42
128

TS-G1314R 200 W MAX.

13 cm Dual-Cone Speaker

INJECTION MOLDED CONE HOLOGRAM

97 46
121

TS-G1014R 180 W MAX.

10 cm Dual-Cone Speaker

INJECTION MOLDED CONE HOLOGRAM

97 43
106

Specifications

	TS-G1604C	TS-G1644R	TS-G1344R	TS-G1044R
Size	16 cm 30 mm*	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	280 W (45 W)	250 W (40 W)	220 W (35 W)	200 W (30 W)
Frequency Response	35 Hz to 38 kHz	31 Hz to 29 kHz	43 Hz to 27 kHz	45 Hz to 27 kHz
Sensitivity (1 W/1 m)	89 dB	90 dB	89 dB	88 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	42 mm	42 mm	46 mm	43 mm
Cut-Out Dimensions	ø128 mm	ø128 mm	ø121 mm	ø106 mm

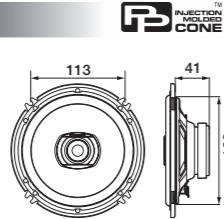
	TS-G1614R	TS-G1314R	TS-G1014R
Size	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	230 W (40 W)	200 W (35 W)	180 W (30 W)
Frequency Response	30 Hz to 23 kHz	40 Hz to 25 kHz	45 Hz to 26 kHz
Sensitivity (1 W/1 m)	90 dB	90 dB	88 dB
Impedance	4 Ω	4 Ω	4 Ω
Mounting Depth	42 mm	46 mm	43 mm
Cut-Out Dimensions	ø128 mm	ø121 mm	ø106 mm

* Tweeter specification

TS-F1634R 200 W MAX.

16 cm 2-Way Speaker

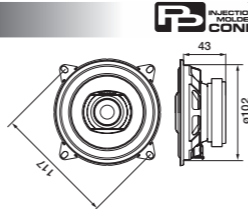
- FEATURES:**
- 16 cm IMPP Composite Cone Woofer
 - 30 mm Silver PET Film Dome Tweeter
 - Copper Voice Coil
 - Single Blended Fabric Damper



TS-F1034R 150 W MAX.

10 cm 2-Way Speaker

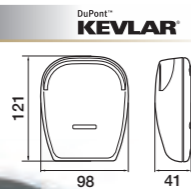
- FEATURES:**
- 10 cm IMPP Composite Cone Woofer
 - 30 mm Silver PET Film Dome Tweeter
 - Copper Voice Coil
 - Single Blended Fabric Damper



TS-CX900 80 W MAX.

2-Way A/V Center Speaker

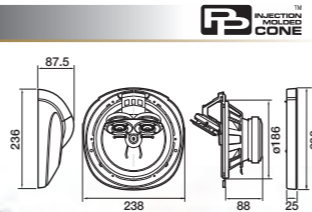
- FEATURES:**
- 66 mm KEVLAR® Brand Fiber Composite Cone Woofer
 - 25 mm Balanced Dome Tweeter with Neodymium Magnet
 - Butyl Rubber Surround
 - Compact Aerodynamic Cabinet Design
 - Double Neodymium Magnet Assembly with Magnetically Shielded Circuit Design



TS-2150 200 W MAX.

20 cm Cross-Axial 3-Way Speaker

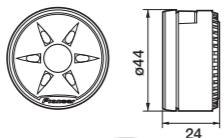
- FEATURES:**
- 20 cm IMPP Composite Cone Woofer/25 mm Titanium Dome Tweeter/20 mm Ceramic Up-Dome Tweeter
 - Cross-Axial Engineering for Excellent Sound Quality



TS-S250 250 W MAX.

40 mm High-Power Tune-Up Tweeter

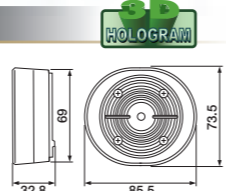
- FEATURES:**
- 40 mm Ceramic Horn Tweeter Design
 - High-Power Handling of 250 W Max.
 - High Sensitivity: 97 dB/W
 - Built-in -6 dB/oct. Capacitor
 - Large Pioneer Logo on Side Surface



TS-S20 200 W MAX.

20 mm Component Hard-Dome Tweeter

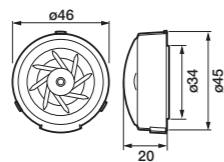
- FEATURES:**
- 20 mm Amorphous-Titanium-Coated PPS (Polyphenylene Sulfide)-Dome Tweeter
 - High-Performance Strontium Magnet
 - Built-in LC Network: Attached at End of Speaker Cable



TS-T110 120 W MAX.

22 mm Component Hard Dome Tweeter

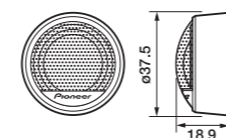
- FEATURES:**
- 22 mm PPTA Hard Dome Tweeter with Strontium Magnet and Magnetic Fluid
 - In-Line -6 dB/Oct. Capacitor for Tweeter Protection
 - Surface or Flush Mounting Capabilities



TS-T15 120 W MAX.

20 mm Component Soft Dome Tweeter

- FEATURES:**
- Small-Sized (20 mm) Polyester Fiber Soft Dome Tweeter with Neodymium Magnet and Magnet Fluid
 - -6 dB/Oct. Capacitor for Tweeter Protection (Included)
 - Flush and Surface Mounting Capabilities

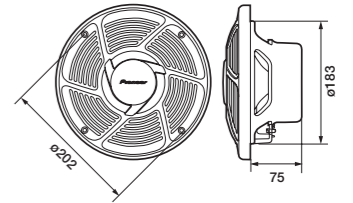


TS-MR2040 200 W MAX.



20 cm Marine-Use 2-Way Speaker

- FEATURES:**
- White Water-Resistant IMPP Cone Woofer
 - Water-Resistant Elastomer Surround
 - Glass-Imide Voice Coil Bobbin
 - Conex Dampener
 - 20 mm PI Dome Reflex Horn Tweeter
 - High-Quality Corrosion-Resistant Hardware
 - Gold-Plated Tinsel Leadwire and Terminals
 - Weather-Proof and Heat-Resistant Resin

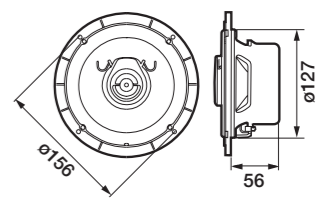


TS-MR1640 160 W MAX.



16 cm Marine-Use 2-Way Speaker

- FEATURES:**
- White Water-Resistant IMPP Cone Woofer
 - Water-Resistant Elastomer Surround
 - Glass-Imide Voice Coil Bobbin
 - Conex Dampener
 - 27 mm PEI Balanced Dome Tweeter
 - High-Quality Corrosion-Resistant Hardware
 - Gold-Plated Leadwire and Terminals
 - Weather-Proof and Heat-Resistant Resin

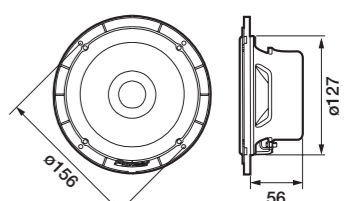


TS-MR1600 100 W MAX.



16 cm Marine-Use Dual-Cone Speaker

- FEATURES:**
- White Water-Resistant IMPP Cone Woofer
 - Water-Resistant Elastomer Surround
 - Glass-Imide Voice Coil Bobbin
 - Conex Dampener
 - High-Quality Corrosion-Resistant Hardware
 - Gold-Plated Tinsel Leadwire and Terminals
 - Weather-Proof and Heat-Resistant Resin



Specifications







	TS-F1634R	TS-F1034R	TS-CX900	TS-2150	TS-S250	TS-S20
Size	16 cm	10 cm	6.6 cm	20 cm	40 mm	20 mm
Max. Music Power (Nominal)	200 W (25 W)	150 W (20 W)	80 W (20 W)	200 W (50 W)	250 W (50 W)	200 W (50 W)
Frequency Response	31 Hz to 16 kHz	45 Hz to 18 kHz	80 Hz to 70 kHz	28 Hz to 28 kHz	6,000 Hz to 40 kHz	3,000 Hz ⁽¹⁾ / 1,200 Hz ⁽²⁾ to 26 kHz
Sensitivity (1 W/1 M)	88 dB	86 dB	81 dB	91 dB	97 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	8 Ω	8 Ω
Mounting Depth	41 mm	43 mm	—	88 mm	—	—
Cut-Out Dimensions	ø128 mm	ø102 mm	—	ø186 mm	—	—

(1) With network (2) Without network

	TS-T110	TS-T15	TS-MR2040	TS-MR1640	TS-MR1600
Size	22 mm	20 mm	20 cm	16 cm	16 cm
Max. Music Power (Nominal)	120 W (40 W)	120 W (40 W)	200 W (40 W)	160 W (30 W)	100 W (25 W)
Frequency Response	2,500 Hz to 30 kHz	2,500 Hz to 30 kHz	25 Hz to 30 kHz	30 Hz to 30 kHz	30 Hz to 20 kHz
Sensitivity (1 W/1 M)	90 dB	90 dB	92 dB	91 dB	90 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	—	—	75 mm	56 mm	56 mm
Cut-Out Dimensions	—	—	ø183 mm	ø127 mm	ø127 mm

Accessories Connection Table with AV and Audio Receivers

ACCESSORY COMPATIBILITY

	AVH-P8450BT	AVH-X5550BT AVH-X4550DVD AVH-X2550BT AVH-X1550DVD	AVH-P6350BT AVH-P5350DVD	AVH-S450DVD	DVH-855AVBT	DVH-755AV DVH-345UB	MVH-8350BT MVH-7350	DEH-P99RS	DEH-X9550BT DEH-X8550BT DEH-X6550BT MVH-355BT FH-X755BT	DEH-80PRS DEH-9450UB DEH-X9550SD DEH-X7550SD DEH-X3550UI MVH-2550UI MVH-155UI FH-X555UI	DEH-1550UB(G) DEH-155MP(G) DXT-1569UB DXT-156UB
iPod/iPhone 	CD-IU201S	*1	*1								
	CD-IU201V										
	CD-IU51V										
	CD-IU51										
Bluetooth® 	CD-BTB200		EXT (AVH-P5350DVD)								
System 	DEQ-P7650/ DEQ-P6600										
	XDV-P650/ XDV-P6	EXT	EXT								
	CDX-P1280/ CDX-P680										
	CDX-FM1287/ CDX-FM687										
Tuner*2 	GEX-1550DTV										
	GEX-1550TV										
Back Up Camera 	ND-BC5										
	ND-BC20PA										
Remote Control 	CD-R320										
	CD-SR100										
	CD-SR110		AVH-X5550BT AVH-X2550BT	AVH-P6350BT			MVH-8350BT				

Note: Some functions may be limited in terms of remote controllability, even if the receiver and remote control are denoted as compatible in the chart.
 *1. When Advanced App Mode is in use.
 *2. May not be compatible with certain receivers.

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- / Audio Receivers Features Comparison 93
- / Connection Table for iPod/iPhone and Android Device with Pioneer Receivers 94
- / Amplifiers Features Comparison & Specifications 95
- / General Information about Subwoofer Connection 96
- / Amplifier & Subwoofer Connection and Combination Charts 97
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- / Subwoofers Thiele/Small Parameters 99
- / Subwoofer Enclosures 100
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Audio/Video Receiver Accessories

CD-BTB200

Bluetooth® Wireless Adapter
 • For use with Pioneer Bluetooth adapter ready receivers.
 • Dimensions (W x H x D): 146 mm x 25 mm x 90 mm



XDV-P650/XDV-P6

1-DIN Size 6-Disc DVD Player with Dolby® Digital and DTS Digital Out™
 • Compatible with DVD-R/RW (Video mode) and CD-R/RW
 • Built-in MPEG-1/2 Decoder
 • 96 kHz/24-bit D/A Converter
 • Direct Control by AV Receiver
 • External Control by Any IP-Bus Receiver
 • Optical Digital Output (Dolby® Digital/DTS®/Linear PCM)
 • Analog IP-Bus Output
 • Composite Video Output (Front & Rear)
 • Graphic User Interface with OSD (On Screen Display)



ND-BC5

Universal Rear View Camera



ND-BC20PA

ND-BC2 with Parking Assistant Feature



CD-VS33

Video Switcher
 • Universal switcher with 3 A/V inputs, 3 video inputs, 2 headphone outputs with volume control and independent AV selector.



CD-MC20

Microphone for Auto EQ Frequency Band Fine-Tuning



DEQ-P7650/DEQ-P6600

Dolby® Digital, Dolby Pro Logic® II and DTS® Audio Processor
 • 5.1-Channel Multi Channel Audio Processor
 • Sound Field Control (6 modes)
 • Multi-Channel Auto EQ/Auto-Time Alignment
 • 4.1-Channel Down Mixing Processor
 • 1-Day Back-up Memory
 • Dimensions (W x H x D): 237 mm x 29 mm x 171 mm



DEQ-P7650

CD-DD25

Optical Digital Converter for DEQ-P7650/DEQ-P6600 with AV receivers



GEX-1550DTV NEW

Digital TV Tuner
 • Compatible broadcasting system: ISDB-T



GEX-1550TV NEW

Analog TV Tuner
 • Compatible broadcasting systems: PAL/SECAM/NTSC

Remote Controls

CD-R510

Remote Control
 • For use with receiver with Bluetooth wireless technology.



CD-R320

Optional Remote Control for DEH Series Receivers



CD-R310

Optional Remote Control for DEH Series Receivers



CD-SR110

Steering Wheel Remote Control for Bluetooth Receivers



CD-SR100

Steering Wheel Remote Control
 • For use with all Remote Control Ready IP-Bus source units (CD Players and DVD Receivers)



CD-R30-02

Optional Remote Control
 • For use with KEH-P4025



Note: Accessories are for products that appear in the Dealer Reference Guide. Please refer to a Pioneer sales representative for up-to-date information.

Installation Accessories

RD-221

Power Supply Wiring Kit



RD-223

Optional Wiring Kit



RD-226

Power Cable
 • For use with amplifier with screw terminal.

RD-228

Power Cable
 • For use with amplifier with block terminal.



RD-228

RD-983

Alternator Noise Suppressor



RD-984

Alternator Noise Suppressor



RD-985

In-Line RCA Noise Suppressor



RD-SR520

High-Power Speaker Output to RCA Adapter



Accessories for Connection of iPod

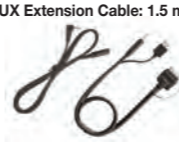
CD-IU201S

USB Interface Cable for iPhone 4/ iPhone 4S (or 4th generation iPod touch) (USB Cable: 50 cm/ RGB Cable: 2 m)



CD-IU201V

USB Interface Cable for iPod/iPhone (USB and AUX Cable: 50 cm/ AUX Extension Cable: 1.5 m)



CD-IU51V

USB Interface Cable for iPod/iPhone (USB and AUX Cable: 50 cm)



Note: Please refer to pages 89 and 94 for accessories for connection of iPod details.

CD-IU51

USB Interface Cable for iPod/iPhone (50 cm)



CD-V150M

Mini-Jack Cable for iPod (1.5 m)
 • For use with iPod and receiver with built-in AUX input.



CD-IB100II

Interface Adapter for iPod
 • Dimensions (W x H x D): 95 mm x 21 mm x 91 mm



IP-Bus Accessories

CD-IP601E

IP-Bus Extension Cable (6 m)
 • Female-to-Male IP-Bus Extension Cable.



CD-IP150

IP-Bus Cable (1.5 m)
 • Male-to-Male IP-Bus Cable.



CD-RB10

IP-Bus-to-RCA Adapter
 • Allows connection of external audio source to IP-Bus receiver.



Note: Not available in AVH series receivers released in and after 2010.

Auxiliary Input Accessories

CD-U50E

USB Extension Cable (50 cm)



CD-RM10

AUX Mini-Plug to Composite A/V Cable (2 m)



CD-UB100

IP-Bus USB Adapter
 • Dimensions (W x H x D): 146 mm x 24 mm x 90 mm



Subwoofer Grilles

UD-G308

30 cm Spoke Grille
 • For use with TS-W3002D4 and TS-W303R



UD-G308

UD-G258

25 cm Spoke Grille
 • For use with TS-W2502D4, TS-W258D2, TS-W258D4 and TS-W258F

MCD Players and Magazines

CDX-P1280

12-Disc IP-Bus Multi-CD Player
 • Dimensions (W x H x D): 257 mm x 94 mm x 170 mm



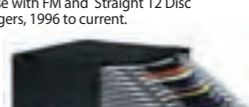
CDX-FM1287

Universal FM-Modulated 12-Disc Multi-CD System with Wireless Remote Control
 • Dimensions (W x H x D): 257 mm x 94 mm x 170 mm



JD-1212S

12 Disc Magazine
 • For use with FM and Straight 12 Disc Changers, 1996 to current.



CDX-P680

6-Disc IP-Bus Multi-CD Player
 • Dimensions (W x H x D): 248 mm x 66 mm x 168 mm



CDX-FM687

Universal FM-Modulated 6-Disc Multi-CD System with Wireless Remote Control
 • Dimensions (W x H x D): 248 mm x 66 mm x 168 mm



JD-612V

6 Disc Magazine
 • For use with FM and Straight 6 Disc Changers, 1996 to current.



AV Receivers Features Comparison

	AVH-P8450BT	AVH-X5550BT	AVH-X4550DVD	AVH-X2550BT	AVH-X1550DVD	AVH-P6350BT	AVH-PS350DVD	AVH-S4550DVD	DVH-855AVBT	DVH-755AV	DVH-345UB	MVH-8350BT	MVH-7350
Display Section													
Screen Size/Aspect Ratio	7"/16:9	7"/16:9	7"/16:9	6.1"/16:9	6.1"/16:9	7"/16:9	7"/16:9	7"/16:9	3.5"/16:9	3"/16:9		3"/16:9	3"/16:9
Resolution	VGA (800 x 480)	VGA (800 x 480)	VGA (800 x 480)	VGA (800 x 480)	VGA (800 x 480)	QVGA (480 x 240)	QVGA (480 x 240)	QVGA (480 x 240)	QVGA (480 x 240)	QVGA (480 x 240)		QVGA (480 x 240)	QVGA (480 x 240)
Advanced Display Resolution (ADR)	x	x	x	x	x	x	x	x	x	x		x	x
LED Backlight	x	x	x	x	x	x	x	x	x	x		x	x
Background Picture and Video	4 BGP, 2 BGV	4 BGP, 2 BGV	4 BGP, 2 BGV	4 BGP, 2 BGV	4 BGP, 2 BGV	4 BGP, 3 BGV	4 BGP, 3 BGV	4 BGP, 3 BGV	4 BGP, 3 BGV	4 BGP, 3 BGV		3 BGP, 1 BGV	3 BGP, 1 BGV
Spectrum Analyzer	x	x	x	x	x	x	x	x	x	x		x	x
AG (Anti-Glare) Screen Coating	x	x	x	x	x	x	x	x	x	x		x	x
Touch Panel Operation	x	x	x	x	x	x	x	x	x	x		x	x
Motorized Display	x	x	x	x	x	x	x	x	x	x		x	x
Selected Angle Setting	5 Settings	5 Settings	5 Settings			50 to 110 Degrees	50 to 110 Degrees	50 to 110 Degrees					
Automatic Display Positioning	x	x	x			x	x	x					
CD/DVD/Bluetooth®/iPod/USB/SD Memory Card Control/Media Playback Section													
Disc Capacity	1	1	1	1	1	1	1	1	1	1		1	1
CD-R/RW, DVD-R/RW Compatible	x	x	x	x	x	x	x	x	x	x		x	x
Built-in Bluetooth®	HFP/A2DP/AVRCP/SSP	HFP/A2DP/AVRCP/SSP/SPP	HFP/A2DP/AVRCP/SSP/SPP	HFP/A2DP/AVRCP/SSP/SPP	HFP/A2DP/AVRCP/SSP/SPP	HFP						HFP	
App Mode	x	x	x	x	x	x	x	x	x	x		x	x
Direct Control for iPod/iPhone (Audio/Video)®	x	x	x	x	x	x	x	x	x	x		x	x
Advanced App Mode®	x	x	x	x	x	x	x	x	x	x		x	x
Link Search	x	x	x	x	x	x	x	x	x	x		x	x
SD/SDHC Memory Card Slot	x	x	x	x	x	x	x	x	x	x		x	x
USB Port®	Rear x 2	Rear	Rear	Rear	Rear	Front®	Front®	Front®	Front®	Front®		Front®	Front®
AUX Input (3.5 mm mini-jack)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)		Front (Audio/Video)	Front (Audio/Video)
DVD Video Playback	x	x	x	x	x	x	x	x	x	x		x	x
Music CD Playback	x	x	x	x	x	x	x	x	x	x		x	x
Video CD Playback	x	x	x	x	x	x	x	x	x	x		x	x
MP3/WMA/iTunes AAC Playback on CD/DVD	x	x	x	x	x	x	x	x	x	x		x	x
JPEG Image File Playback on CD/DVD	x	x	x	x	x	x	x	x	x	x		x	x
DivX Video File Playback on CD/DVD	x	x	x	x	x	x	x	x	x	x		x	x
MP3/WMA/iTunes AAC/JPEG Playback from USB Device/SD Memory Card	USB/SD®	USB®	USB®	USB®	USB®	USB/SD	USB/SD	USB/SD	USB/SD	USB/SD		USB/SD	USB/SD
H.264/WMV Playback from CD/DVD/USB Device/SD Memory Card	x	x	x	x	x	x	x	x	x	x		x	x
DivX Video File Playback from USB Device/SD Memory Card	USB/SD	USB	USB	USB	USB	USB/SD	USB/SD	USB/SD	USB	USB		USB/SD	USB/SD
MPEG-1/2/4 Decoder	x	x	x	x	x	MPEG-1/2	MPEG-1/2	MPEG-1/2	x	x		x	x
Linear PCM Decoder	x	x	x	x	x	x	x	x	x	x		x	x
Dolby® Digital Decoder	x	x	x	x	x	x	x	x	x	x		x	x
DVD Chapter/Title/Time Direct Search	x	x	x	x	x	x	x	x	Chapter/Title	Chapter/Title		Chapter/Title	Chapter/Title
DVD Chapter/Title Repeat	x	x	x	x	x	x	x	x	x	x		x	x
DVD Auto Play	x	x	x	x	x	x	x	x	x	x		x	x
VCD Playback Control	x	x	x	x	x	x	x	x	x	x		x	x
Repeat (Disc/Track)	x	x	x	x	x	x	x	x	x	x		x	x
Tuner Section													
Supertuner® III D	x	x	x	x	x	x	x	x	x	x		x	x
6 Presets	24 Stations	24 Stations	24 Stations	24 Stations	24 Stations	24 Stations	24 Stations	24 Stations	24 Stations	24 Stations		24 Stations	24 Stations
BSM (Best Stations Memory)	x	x	x	x	x	x	x	x	x	x		x	x
RDS	x	x	x	x	x	x	x	x	x	x		x	x
Shortwave Tuner													
Audio Section													
Built-in Amplifier: MOSFET 50 W x 4		x	x	x	x	x	x	x	x	x		x	x
Hi-Volt RCA Preouts	4 (5 V)	3 (5 V)	3 (4 V)	3 (4 V)	3 (4 V)	3 (4 V)	3 (4 V)	3 (4 V)	3 (4 V)	3 (4 V)			
RCA Preouts												2 (2 V)	2 (2 V)
DSP	x	x										2 (2 V)	2 (2 V)
D/A Converter	AKM 24-bit	Burr Brown 24-bit	24-bit	24-bit	24-bit	24-bit	24-bit	24-bit	24-bit	24-bit		24-bit	24-bit
Exclusively Designed Audio Parts	x	x											
Specialized Audio Parts													
Auto-EQ (with Mic Included)	x	x											
Time Alignment	Auto/Manual	Auto/Manual											
Equalizer	Dual (L/R) 31-Band GEQ	Dual (L/R) 16-Band GEQ	5-Band GEQ	5-Band GEQ	5-Band GEQ	5-Band GEQ	5-Band GEQ	5-Band GEQ	5-Band GEQ	5-Band GEQ		5-Band GEQ	5-Band GEQ
Crossover Network	4-Way	3-Way	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF		HPF/LPF	HPF/LPF
Advanced Sound Retriever	x	x	x	x	x	x	x	x	x	x		x	x
Advanced Sound Retriever for Bluetooth Wireless Audio													
Bass Boost			x	x	x	x	x	x	x	x		x	x
Subwoofer Control			x	x	x	x	x	x	x	x		x	x
Loudness	1-Mode	1-Mode	3-Mode	3-Mode	3-Mode	3-Mode	3-Mode	3-Mode	3-Mode	3-Mode		3-Mode	3-Mode
Listening Position Selector	x	x											
Selectable Fader		x	x	x	x	x	x	x	x	x		x	x
MIXTRAX Section													
MIXTRAX EZ													
Compatible Source													
Flashing Color													
Short Playback Mode													
Sound Level Indicator													
General													
IP-Bus	x												
Pioneer TV Tuner Ready®11 (GEX-1550DTV/GEX-1550TV)		x											
Multi-Channel Processor Ready (EQ-P7650/EQ-P6500)	x												
Source DVD Control (XDV-P650/XDV-P6)	External					External	External						
Rear-View Camera Input®12	x	x	x	x	x	x	x	x	x	x		x	x
Composite A/V Input	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)		1 (Audio)®13	1 (Audio)®13
Composite Video Output	1	1	1	1	1	1	1	1	1	1		1	1
RGB Input	x	x	x	x	x	x	x	x	x	x		x	x
Dual Zone Audio/Video	x	x	x	x	x	x	x	x	x	x		x	x
Color Customization	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	2 Colors (Red/Blue)		6-Display Colors 112-Key Colors	6-Display Colors 112-Key Colors
Display Off Mode	x	x	x	x	x	x	x	x	x	x		x	x
JPEG Slide Show®14	x	x	x	x	x	x	x	x	x	x		x	x
Multi-Language Display	Menu/ID3 Tag	Menu/ID3 Tag®15	Menu/ID3 Tag®15	Menu/ID3 Tag®15	Menu/ID3 Tag®15	Menu®15	Menu®15	Menu®15	Menu/ID3 Tag (English/Spanish/Portuguese)	Menu/ID3 Tag (English/Spanish/Portuguese)		Menu (English/Spanish/Portuguese/Russian)	Menu (English/Spanish/Portuguese/Russian)
Rotary Volume Control	x	x	x	x	x	x	x	x	x	x		Rotary Commander	Rotary Commander
Wired Remote Input	x	x	x	x	x	x	x	x	x	x		x	x
Remote Control	x	x	x	x	x	x	x	x	x	x		x	x
Detachable Face Security™	x	x	x	x	x	x	x	x	x	x		x	x

*1 HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile (version 1.3), SSP = Secure Simple Profile, SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.
 *2 AVRCP (version 1.0)
 *3 Optional cable required. Please refer to page 94 for compatible cable information.
 *4 Optional cable CD-U2015 required when Advanced App Mode is in use.
 *5 Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.
 *6 Please use CD-USB0E USB extension cable if a direct connection causes a USB Device to protrude from the receiver in a way that can interfere with driving.
 *7 Compatible with WAV playback.
 *8 MPEG-1/2 files stored in a USB Device or SD Memory Card can't be played.
 *9 Compatible with full-featured Non-Stop Mix Play based on data from music analysis performed using MIXTRAX software. Compatible sources: USB Device and SD Memory Card.
 *10 Quick, easy, accessible Non-Stop Mix Play without music analysis data from MIXTRAX software. Compatible sources: iPod, iPhone, USB Device and SD Memory Card.
 *11 Respective cables for Pioneer TV Tuner and Advanced App Mode connection cannot be simultaneously connected to AV receiver.
 *12 Use input only for reverse or mirror image rear view camera. Other use may result in injury or damage.
 *13 Available only in certain regions of product distribution.
 *14 JPEG files are displayed automatically as a slideshow.
 *15 Usable language differs according to region. Please see pages 17 and 19 for more details.

Audio Receivers Features Comparison

	DEK-P99RS	DEH-80PRS	DEH-9450UB	DEH-X9550BT	DEH-X9550SD	DEH-X8550BT	DEH-X7550SD	DEH-X6550BT	DEH-X3550UI	DEH-4550BT	DEH-2550UI	DEH-1550UB DEH-1550UBG	DEH-155MP DEH-155MPG	MVH-355BT	MVH-155UI	FH-X755BT	FH-X555UI	DXT-1569UB DXT-156UB
CD Player/Bluetooth®/iPod/Android/SD Memory Card/USB Control/Media Playback Section																		
CD-R/CD-RW Compatible	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Built-in Bluetooth®				HFP/A2DP/AVRCP/SSP/SPP		HFP/A2DP/AVRCP/SSP/SPP		HFP/A2DP/AVRCP/SSP		HFP/A2DP/AVRCP/SSP				HFP/A2DP/AVRCP/SSP		HFP/A2DP/AVRCP/SSP		
Bluetooth Adapter Ready (CD-BTB200)®	x																	
Direct Control for iPod/iPhone (CD-U51 Required)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Voice Control For iPhone				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
App Source/App Mode®1 for iPhone		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Compatible with iPod (CD-B1000I)	x																	
Control for Android Devices with CarMedia/Player App®1				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SD/SDHC Memory Card Slot				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
USB Port®	Rear	Rear x 2	Rear x 2	Rear x 2	Rear x 2	Rear	Rear	Front®	Front®	Front®	Front®	Front®	Front®	Front®	Front®	Front®	Front®	Front®
Music Browser		SD/USB	USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB	SD/USB
AUX Input (3.5 mm mini-jack)	Front®	Front	Rear	Front	Front	Front	Front	Front	Front	Front	Front	Front	Front	Front	Front	Front	Front	Front
WMA/MP3/WAV Playback	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
iTunes® AAC Playback®1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
CD Text	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tuner Section																		
Supertuner® III D	x	x	x	x														

General Information about Subwoofer Connection

Important Caution against Improper Connection

Examples shown here indicate theoretical impedance values in the connections. Properly connect subwoofer(s) to amplifier according to the amplifier's compatible speaker impedance range. Avoid improper connection which may cause the product to overheat, malfunction or even ignite.

Single Voice Coil (SVC)

Connection Examples
Series and parallel connections apply to subwoofer(s).

Single Subwoofer Connection

1 SVC

- 2 Ohm Subwoofer: 2 Ohm
- 4 Ohm Subwoofer: 4 Ohm

Multiple Subwoofer Connection

2 SVC

Series (+)
• 2 Ohm Subwoofers: 4 Ohm
• 4 Ohm Subwoofers: 8 Ohm

Parallel (I I)
• 2 Ohm Subwoofers: 1 Ohm
• 4 Ohm Subwoofers: 2 Ohm

3 SVC

Parallel (I I)
• 4 Ohm Subwoofers: 1.33 Ohm

4 SVC

Parallel (I I)
• 4 Ohm Subwoofers: 1 Ohm

Dual Voice Coil (DVC)

Connection Examples
Series and parallel connections apply to subwoofer(s).

Single Subwoofer Connection

1 DVC

Series (+)
• Dual 2 Ohm Subwoofer: 4 Ohm
• Dual 4 Ohm Subwoofer: 8 Ohm

Parallel (I I)
• Dual 2 Ohm Subwoofer: 1 Ohm
• Dual 4 Ohm Subwoofer: 2 Ohm

Multiple Subwoofer Connection

In theory, there are four main connection patterns (below). In practice; however, you should choose connection method in consideration of the proper balance between amplifier's impedance and subwoofer's combined impedance.

1. All voice coils are in series connection
2. Voice coil is in series connection, and subwoofers are in parallel connection
3. Voice coil is in parallel connection, and subwoofers are in series connection
4. All voice coils are in parallel connection

2 DVC

Series (+)-Parallel (I I) Connection
• 2 Ohm Subwoofers: 2 Ohm
• 4 Ohm Subwoofers: 4 Ohm

Parallel (I I)-Parallel (I I) Connection
• 2 Ohm Subwoofers: 0.5 Ohm
• 4 Ohm Subwoofers: 1 Ohm

3 DVC

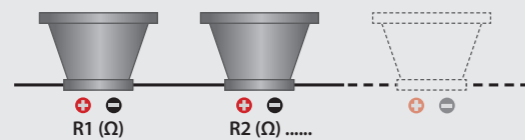
Series (+)-Parallel (I I) Connection
• 2 Ohm Subwoofers: 1.33 Ohm
• 4 Ohm Subwoofers: 2.67 Ohm

4 DVC

Series (+)-Parallel (I I) Connection
• 2 Ohm Subwoofers: 1 Ohm
• 4 Ohm Subwoofers: 2 Ohm

Calculating Impedance

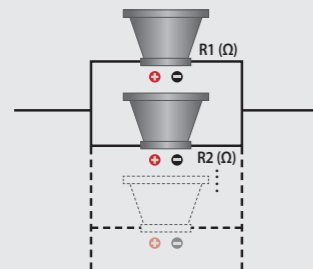
Series (+) Wiring: The more subwoofers connected within the circuit, the higher the total impedance.



$$R1 (\Omega) + R2 (\Omega) + \dots + Rn (\Omega) = Rt (\Omega)$$

Example with 2 subwoofers:
4 Ω subwoofer: 4 Ω + 4 Ω = 8 Ω
2 Ω subwoofer: 2 Ω + 2 Ω = 4 Ω

Parallel (I I) Wiring: The more subwoofers connected within the circuit, the lower the total impedance.



$$\frac{1}{R1 (\Omega)} + \frac{1}{R2 (\Omega)} + \dots + \frac{1}{Rn (\Omega)} = Rt (\Omega)$$

Example with 2 subwoofers:
4 Ω subwoofer: $\frac{1}{4 \Omega} + \frac{1}{4 \Omega} = 2 \Omega$
2 Ω subwoofer: $\frac{1}{2 \Omega} + \frac{1}{2 \Omega} = 1 \Omega$

Amplifier & Subwoofer Connection Chart

Voice Coil Connection	Connection Examples	Connection Examples	
Single Voice Coil	4 Subwoofers as 1 Ω Mono GM-D9601, TS-W310S4 x 4, Parallel, 4 Ω	4 Subwoofers as 1 Ω Mono GM-D8601, TS-SW3001S4 x 4, Parallel, 4 Ω	
	2 Subwoofers as 2 Ω Mono GM-D9601, TS-W310S4 x 2, Parallel, 4 Ω	1 Subwoofer as 4 Ω Mono GM-5500T, TS-W310S4 x 1, 4 Ω	
	Dual Voice Coil	4 Subwoofers as 1 Ω Mono GM-D9601, TS-W309D2 x 4, Parallel, 4 Ω	2 Subwoofers as 1 Ω Mono GM-D9601, TS-W3002D4 x 2, Parallel, 2 Ω
		2 Subwoofers as 2 Ω Mono GM-D8601, TS-W309D2 x 2, Parallel, 4 Ω	2 Subwoofers as 4 Ω Mono GM-5500T, TS-W310D4 x 2, Parallel, 8 Ω

Amplifier & Subwoofer Combination Chart

○: DVC Series Wiring
●: DVC Parallel Wiring
■: Single Voice Coil
Series: Series Wiring
Para: Parallel Wiring
2pc.: 2 Pieces Use
4pc.: 4 Pieces Use

		Conventional Subwoofers										Shallow Subwoofers						
		Champion Series PRO		Champion Series														
		TS-W3002D4	TS-W2502D4	TS-W310D4	TS-W310S4	TS-W310	TS-W309D2	TS-W260D4	TS-W260S4	TS-W304R	TS-W254R	TS-SW3001S2	TS-SW3001S4	TS-SW2501S2	TS-SW2501S4	TS-SW841D	TS-SW301	TS-SW251
GM-D8604	4-ch.	1.0 125 W x 4	● (2 Ω) x 2pc. Para.	● (2 Ω) x 2pc. Para.	● (2 Ω) x 2pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	● (1 Ω)	● (2 Ω) x 2pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (2 Ω) x 2pc. Para.	■ (4 Ω) x 4pc. Para.	■ (2 Ω) x 2pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.
	2-ch.	4.0 100 W x 4	● (2 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	○ (4 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.
GM-D9601	1-ch.	1.0 1,200 W x 1	● (2 Ω) x 2pc. Para.	● (2 Ω) x 2pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	○ (4 Ω)	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.
	4-ch.	4.0 500 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)
GM-D8601	1-ch.	1.0 800 W x 1	● (2 Ω) x 2pc. Para.	● (2 Ω) x 2pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	○ (4 Ω)	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.
	4-ch.	4.0 300 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)
GM-6500F	4-ch.	2.0 85 W x 4	● (2 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	○ (4 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.
	2-ch.	4.0 60 W x 4	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)
GM-5500T	2-ch.	2.0 190 W x 2	● (2 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	○ (4 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.
	4-ch.	4.0 125 W x 2	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)
GM-3500T	1-ch.	4.0 400 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)
	2-ch.	2.0 85 W x 2	● (2 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	○ (4 Ω)	● (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (2 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.
GM-3500T	4-ch.	4.0 60 W x 2	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)
	1-ch.	4.0 185 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (2 Ω) x 2pc. Series	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)

Subwoofers Specifications

	TS-W8102SPL	TS-W5102SPL	TS-W3002D4	TS-W2502D4	TS-W310D4	TS-W310S4	TS-W260D4	TS-W260S4	TS-W309D2
Size	38 cm	30 cm	30 cm	25 cm	30 cm	30 cm	25 cm	25 cm	30 cm
Max. Music Power (Nominal)	8,000 W (3,000 W)	6,000 W (2,500 W)	3,500 W (1,000 W)	3,000 W (800 W)	1,400 W (400 W)	1,400 W (400 W)	1,200 W (350 W)	1,200 W (350 W)	1,400 W (220 W)
Frequency Response	15 Hz to 1,500 Hz	18 Hz to 2,000 Hz	20 Hz to 150 Hz	20 Hz to 150 Hz	20 Hz to 250 Hz	20 Hz to 250 Hz	20 Hz to 250 Hz	20 Hz to 250 Hz	20 Hz to 220 Hz
Sensitivity (In Car/1 W)	91 dB	88 dB	90 dB	89 dB	95 dB	95 dB	93 dB	93 dB	94 dB
Impedance	2 Ω x 2	2 Ω x 2	4 Ω x 2	4 Ω x 2	4 Ω	4 Ω	4 Ω x 2	4 Ω	2 Ω x 2
Mounting Depth	311.4 mm	266 mm	189 mm	169 mm	153 mm	153 mm	141 mm	141 mm	153 mm
Cut-Out Dimensions	ø352 mm	ø278 mm	ø278 mm	ø238 mm	ø283 mm	ø283 mm	ø235 mm	ø235 mm	ø283 mm
Recommended Enclosure	70.8 liters	42.5 liters	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters	18.4 liters to 35.4 liters	24.1 liters to 49.5 liters

	TS-W310	TS-W304R	TS-W254R	TS-SW3001S2	TS-SW3001S4	TS-SW2501S2	TS-SW2501S4	TS-SW841D	TS-SW301
Size	30 cm	30 cm	25 cm	30 cm	30 cm	25 cm	25 cm	20 cm	30 cm
Max. Music Power (Nominal)	1,000 W (300 W)	1,300 W (300 W)	1,100 W (250 W)	1,500 W (400 W)	1,500 W (400 W)	1,200 W (300 W)	1,200 W (300 W)	500 W (120 W)	1,000 W (250 W)
Frequency Response	20 Hz to 250 Hz	20 Hz to 220 Hz	20 Hz to 220 Hz	20 Hz to 230 Hz	20 Hz to 230 Hz	20 Hz to 290 Hz	20 Hz to 290 Hz	30 Hz to 1,500 Hz	20 Hz to 114 Hz
Sensitivity (In Car/1 W)	95 dB	95 dB	93 dB	93 dB	93 dB	90 dB	90 dB	85 dB	91 dB
Impedance	4 Ω	4 Ω	4 Ω	2 Ω	4 Ω	2 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	148 mm	135 mm	127 mm	81 mm	81 mm	75 mm	75 mm	62.5 mm	86 mm
Cut-Out Dimensions	ø278 mm	ø283 mm	ø235 mm	ø278 mm	ø278 mm	ø238 mm	ø238 mm	ø186 mm	ø278 mm
Recommended Enclosure	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters	9.9 liters to 28.3 liters	9.9 liters to 28.3 liters	9.9 liters to 19.8 liters	9.9 liters to 19.8 liters	4.2 liters to 14.2 liters	14.2 liters to 28.3 liters

	TS-SW251	TS-WX303	TS-SWX310	TS-WX304T	TS-WX110A	TS-WX210A	TS-WX206A	TS-WX20LPA	TS-W252PRS
Size	25 cm	30 cm	30 cm	30 cm	13 cm x 21 cm	20 cm	20 cm	20 cm	25 cm
Max. Music Power (Nominal)	800 W (200 W)	1,200 W (250 W)	1,000 W (250 W)	1,300 W (300 W)	150 W* (50 W**)	150 W* (50 W**)	150 W* (60 W**)	200 W* (100 W**)	800 W (400 W)
Frequency Response	20 Hz to 144 Hz	10 Hz to 220 Hz	20 Hz to 114 Hz	10 Hz to 360 Hz	40 Hz to 200 Hz	37 Hz to 200 Hz	35 Hz to 200 Hz	25 Hz to 200 Hz	20 Hz to 2,400 Hz
Sensitivity (In Car/1 W)	89 dB	98 dB	91 dB	98 dB	101 dB	102 dB	107 dB	106 dB	84 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	—	—	—	—	4 Ω
Mounting Depth	78 mm	—	—	—	—	—	—	—	178 mm
Cut-Out Dimensions	ø238 mm	—	—	—	—	—	—	—	ø238 mm
Recommended Enclosure	9.9 liters to 19.8 liters	—	—	—	—	—	—	—	28.3 liters

* Maximum output power ** Nominal output power

Speakers Specifications

Size	Component Speakers			TS-D Series						
	TS-C172PRS	TS-C132PRS	TS-S062PRS	TS-D1720C	TS-D1320C	TS-D6902R	TS-D1702R	TS-D1602R	TS-D1302R	TS-D1002R
Max. Music Power (Nominal)	200 W (50 W)	150 W (30 W)	200 W (50 W)** 60 W (15 W)***	260 W (60 W)	180 W (35 W)	360 W (80 W)	280 W (60 W)	260 W (60 W)	180 W (35 W)	110 W (25 W)
Frequency Response	25 Hz to 35 kHz	30 Hz to 35 kHz	48 Hz to 40 kHz	30 Hz to 33 kHz	35 Hz to 33 kHz	28 Hz to 30 kHz	30 Hz to 32 kHz	35 Hz to 32 kHz	35 Hz to 40 kHz	40 Hz to 40 kHz
Sensitivity (1 W/1 m)	89 dB	86 dB	84 dB	88 dB	88 dB	90 dB	88 dB	88 dB	88 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	2,300 Hz	2,200 Hz	—	>2,800 Hz (with -12 dB)	>2,800 Hz (with -12 dB)	2,800 Hz	3,200 Hz	4,000 Hz	6,000 Hz	6,000 Hz
Mounting Depth	67 mm 13.4 mm*	57.3 mm 13.4 mm*	32 mm 42.2 mm***	64.5 mm 12.2 mm*	57.5 mm 12.2 mm*	89 mm	64.5 mm	59 mm	57.3 mm	46.5 mm
Mounting Depth with Mount Adapter	16 cm: 55 mm	—	—	16 cm: 51.5 mm	—	—	—	—	—	—
Cut-Out Dimensions	ø142 mm	ø123 mm	ø64 mm ø69 mm****	ø144 mm	ø121 mm	151 mm x 220 mm	ø139 mm	ø128 mm	ø121 mm	ø106 mm

* Tweeter specification ** With back chamber, 800 Hz, -12 dB/oct. HPF *** Without back chamber, 400 Hz, -12 dB/oct. HPF **** With back chamber

Size	TS-A Series							
	TS-A1605C	TS-A1305C	TS-A6995S	TS-A6985S	TS-A6975S	TS-A6965S	TS-A1685S	TS-A1675S
Max. Music Power (Nominal)	350 W (60 W)	300 W (50 W)	600 W (100 W)	550 W (100 W)	500 W (90 W)	400 W (60 W)	350 W (60 W)	300 W (50 W)
Frequency Response	34 Hz to 32 kHz	48 Hz to 32 kHz	27 Hz to 37 kHz	27 Hz to 38 kHz	28 Hz to 24 kHz	35 Hz to 37 kHz	34 Hz to 30 kHz	35 Hz to 31 kHz
Sensitivity (1 W/1 m)	90 dB	89 dB	92 dB	91 dB	91 dB	92 dB	91 dB	90 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	54 mm 19 mm*	52 mm 19 mm*	85 mm	84 mm	84 mm	72 mm	54 mm	44 mm
Cut-Out Dimensions	ø128 mm	ø121 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	ø128 mm	ø128 mm

* Tweeter specification

Size	Champion Series						
	TS-A6885R	TS-A4675R	TS-A2013I	TS-A2503I	TS-6975 V2	TS-6965 V2	TS-1675 V2
Max. Music Power (Nominal)	350 W (60 W)	200 W (30 W)	500 W (80 W)	420 W (80 W)	500 W (80 W)	400 W (80 W)	300 W (50 W)
Frequency Response	31 Hz to 42 kHz	39 Hz to 39 kHz	25 Hz to 28 kHz	20 Hz to 31 kHz	30 Hz to 25 kHz	30 Hz to 22 kHz	35 Hz to 20 kHz
Sensitivity (1 W/1 m)	90 dB	88 dB	91 dB	92 dB	92 dB	93 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	61 mm	42 mm	89 mm	115 mm	92 mm	84 mm	58 mm
Cut-Out Dimensions	191 mm x 133 mm	95 mm x 153 mm	ø186 mm	ø236 mm	151 mm x 220 mm	151 mm x 220 mm	ø128 mm

* Tweeter specification

Size	TS-G Series							DXT-1569UB & DXT-156UB Speakers		
	TS-G1604C	TS-G1644R	TS-G1344R	TS-G1044R	TS-G1614R	TS-G1314R	TS-G1014R	DXT-1569UB	DXT-156UB	DXT-156UB
Max. Music Power (Nominal)	280 W (45 W)	250 W (40 W)	220 W (35 W)	200 W (30 W)	230 W (40 W)	200 W (35 W)	180 W (30 W)	230 W (30 W)	200 W (25 W)	200 W (25 W)
Frequency Response	35 Hz to 38 kHz	31 Hz to 29 kHz	43 Hz to 27 kHz	45 Hz to 27 kHz	30 Hz to 23 kHz	40 Hz to 25 kHz	45 Hz to 26 kHz	28 Hz to 32 kHz	31 Hz to 16 kHz	31 Hz to 16 kHz
Sensitivity (1 W/1 m)	89 dB	90 dB	89 dB	88 dB	90 dB	90 dB	88 dB	88 dB	88 dB	88 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	42 mm	42 mm	46 mm	43 mm	42 mm	46 mm	43 mm	66.3 mm	41 mm	41 mm
Cut-Out Dimensions	ø128 mm	ø128 mm	ø121 mm	ø106 mm	ø128 mm	ø121 mm	ø106 mm	153 mm x 222 mm	ø128 mm	ø128 mm

* Tweeter specification

Size	Other Speakers										
	TS-F1634R	TS-F1034R	TS-CX900	TS-2150	TS-S250	TS-S20	TS-T110	TS-T15	TS-MR2040	TS-MR1640	TS-MR1600
Max. Music Power (Nominal)	200 W (25 W)	150 W (20 W)	80 W (20 W)	200 W (50 W)	250 W (50 W)	200 W (50 W)	120 W (40 W)	120 W (40 W)	200 W (40 W)	160 W (30 W)	100 W (25 W)
Frequency Response	31 Hz to 16 kHz	45 Hz to 18 kHz	80 Hz to 70 kHz	28 Hz to 28 kHz	6,000 Hz to 40 kHz	3,000 Hz/ 1,200 Hz** to 26 kHz	2,500 Hz to 30 kHz	2,500 Hz to 30 kHz	25 Hz to 30 kHz	30 Hz to 30 kHz	30 Hz to 20 kHz
Sensitivity (1 W/1 m)	88 dB	86 dB	81 dB	91 dB	97 dB	92 dB	90 dB	90 dB	92 dB	91 dB	90 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	8 Ω	8 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	41 mm	43 mm	—	88 mm	—	—	—	—	75 mm	56 mm	56 mm
Cut-Out Dimensions	ø128 mm	ø102 mm	—	ø186 mm	—	—	—	—	ø183 mm	ø127 mm	ø127 mm

* With network ** Without network

Subwoofers Thiele/Small Parameters

	TS-W8102SPL	TS-W5102SPL	TS-W3002D4	TS-W2502D4	TS-W310D4	TS-W310S4	TS-W260D4	TS-W260S4	TS-W309D2	TS-W310
Nom.Dia	38 cm	30 cm	30 cm	25 cm	30 cm	30 cm	25 cm	25 cm	30 cm	30 cm
Qts	0.310	0.340	0.65	0.74	0.77	0.63	1.15	0.83	0.662	1.16
Qms	5.720	7.600	15.13	14.34	12.30	11.93	12.07	10.98	11.265	9.18
Qes	0.330	0.360	0.68	0.78	0.83	0.67	1.27	0.90	0.703	1.33
Frequencies	23.2 Hz	29.0 Hz	31.4 Hz	36.0 Hz	37.0 Hz	35.0 Hz	47.0 Hz	45.0 Hz	37.7 Hz	41.0 Hz
Vas [Liters]	70.14	26.72	13.03	6.77	37.4	35.4	11.5	13.2	33.20	32.1
Vas [ft³]	2.479	0.944	0.460	0.240	1.21	1.25	0.41	0.47	1.172	1.13
Vd [Liters]	1.413	0.673	0.564	0.307	0.56	0.52	0.43	0.28	0.541	0.55
Vd [ft³]	4.99 E-02	2.38 E-02	1.99E-02	1.08E-02	1.98E-02	1.82E-02	1.51E-02	1.00E-02	1.91E-02	1.94E-02
Sd [m²]	9.18 E-02	5.85 E-02	4.37E-02	3.13E-02	5.20E-02	5.20E-02	3.50E-02	3.50E-02	5.20E-02	5.00E-02
Sd [ft²]	0.988	0.630	0.471	0.337	0.56	0.56	0.38	0.38	0.560	0.54
Revc	3.0 Ω	Dual 1.5 Ω	Dual 3.3 Ω	Dual 3.3 Ω	Dual 2.9 Ω	2.9 Ω	Dual 3.3 Ω	3.2 Ω	Dual 1.5 Ω	3.0 Ω
Levc (at 2,000 Hz)	5.560 mH	5.090 mH	5.55 mH (8 Ω) 1.39 mH (2 Ω)	4.80 mH (8 Ω) 1.20 mH (2 Ω)	4.86 mH (8 Ω) 1.23 mH (2 Ω)	2.53 mH	4.70 mH (8 Ω) 1.20 mH (2 Ω)	2.81 mH	2.99 mH (4 Ω) 0.74 mH (1 Ω)	1.26 mH
Xmax [mm]	15.4	11.5	12.9	9.8	10.8	9.9	12.2	8.1	10.4	11
Xmax [In]	0.61	0.45	0.51	0.39	0.42	0.39	0.48	0.32	0.41	0.43
Zmax	58.56 Ω	161.04 Ω	157.77 (8 Ω) 38.53 (2 Ω)	133.73 (8 Ω) 32.72 (2 Ω)	85.92 (8 Ω) 20.75 (2 Ω)	52.91 Ω	64.07 (8 Ω) 15.38 (2 Ω)	40.16 Ω	49.4 (4 Ω) 12.7 (1 Ω)	21.26 Ω
Bl	33.640 Tm	30.180 Tm	28.38 Tm (8 Ω) 14.19 Tm (2 Ω)	24.16 Tm (8 Ω) 12.08 Tm (2 Ω)	18.7 Tm (8 Ω) 9.4 Tm (2 Ω)	14.8 Tm	16.0 Tm (8 Ω) 8.0 Tm (2 Ω)	12.7 Tm	14.82 Tm (4 Ω) 7.41 Tm (1 Ω)	9.9 Tm
Rms	20.367 Ns/m	13.470 Ns/m	5.334 Ns/m	4.602 Ns/m	3.96 Ns/m	3.99 Ns/m	3.59 Ns/m	3.82 Ns/m	4.319 Ns/m	4.86 Ns/m
Mms	800.11 g	550.50 g	408.83 g	291.71 g	208 g	216 g	148 g	148 g	218.53 g	173 g
Cms	6.000 E-05 m/N	5.350 E-05 m/N	6.29E-05 m/N	6.66E-05 m/N	8.8 x 10-5 m/N	9.5 x 10-5 m/N	7.9 x 10-5 m/N	8.4 x 10-5 m/N	8.700E-05 m/N	7.8 x 10-5 m/N
Mg. Wt.	11,000 g	9,100 g	3,230 g	2,490 g	2,100 g	2,100 g	1,510 g	1,510 g	2,100 g	1,240 g
Flux Density	5,700 Gauss	6,300 Gauss	5,900 Gauss	5,400 Gauss	7,428 Gauss	6,895 Gauss	6,895 Gauss	6,595 Gauss	7,317 Gauss	8,425 Gauss
Hag [mm]	30	30	24	23	10	10	10	10	10	10
Hag [In]	1.181	1.181	0.94	0.91	0.39	0.39	0.			

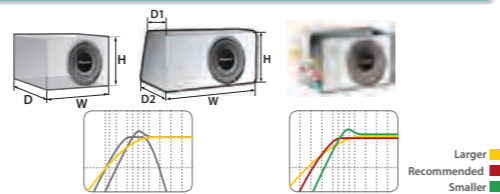
Subwoofer Enclosures

SEALED ENCLOSURES

The simplest subwoofer enclosure to design and build is a sealed enclosure. A sealed enclosure is essentially a completely sealed box that isolates the front sound waves of the subwoofer from the rear waves.

Advantages of a sealed enclosure design include: smaller enclosure size, simple design and fabrication, flat frequency response, good in-vehicle transient response, and higher power handling.

Disadvantages of a sealed enclosure design include: less efficient than a comparable vented enclosure and limited lower frequency extension.



Recommended Enclosure Volumes and Dimensions*	TS-W8102SPL	TS-W5102SPL	TS-W3002D4	TS-W2502D4	TS-W310D4	TS-W310S4	TS-W260D4	TS-W260S4	TS-W309D2
Enclosure Volume (l)									
Center	70.8	42.5	22.6	17.0	35.4	35.4	22.6	22.6	35.4
Box Dimensions: W x H x D (mm)	—	—	367 x 367 x 247	329 x 329 x 238	396 x 396 x 314	396 x 396 x 314	351 x 351 x 269	351 x 351 x 269	396 x 396 x 314
Min.	63.7	38.3	14.2	9.9	24.1	24.1	18.4	18.4	24.1
Max.	77.9	46.8	28.3	19.8	49.5	49.5	35.4	35.4	49.5

Recommended Enclosure Volumes and Dimensions*	TS-W310	TS-W304R	TS-W254R	TS-SW3001S4	TS-SW3001S2	TS-SW2501S4	TS-SW2501S2	TS-SW841D	TS-SW301	TS-SW251
Enclosure Volume (l)										
Center	35.4	35.4	22.6	18.4	18.4	12.7	12.7	11.3	18.4	12.7
Box Dimensions: W x H x D (mm)	396 x 396 x 314	396 x 396 x 314	351 x 351 x 269	—	—	—	—	—	—	—
Box Dimensions: W x H x D1 x D2 (mm)	—	—	—	630 x 357 x 107 x 164	630 x 357 x 107 x 164	545 x 320 x 102 x 152	545 x 320 x 102 x 152	618 x 290 x 100 x 131	630 x 357 x 107 x 164	545 x 320 x 102 x 152
Min.	24.1	24.1	18.4	14.2	14.2	9.9	9.9	4.2	14.2	9.9
Max.	49.5	49.5	35.4	28.3	28.3	19.8	19.8	14.2	28.3	19.8

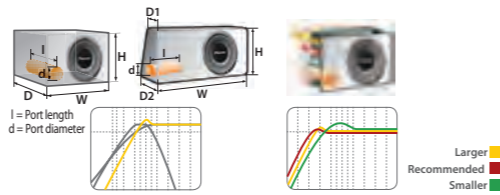
* Measured externally. 19 mm MDF particle board recommended.

VENTED ENCLOSURES (BASS REFLEX)

Similar in design to a sealed enclosure, vented enclosures utilize a sealed chamber that has been 'vented' or 'ported' with an opening of a determined diameter and length. The vent (or port) opening is tuned to a certain frequency by changing the length or diameter of the opening. The addition of the vent allows the enclosure to be more efficient by allowing the rear sound waves of the subwoofer motion to reinforce the front waves. In a vented enclosure, there's a direct relationship between the subwoofer, the enclosure airspace, and the tuned frequency of the vent. When properly designed, a vented enclosure benefits from having a 3 dB higher efficiency at the tuned frequency of the vent compared to the same subwoofer mounted in a sealed enclosure.

Advantages of a vented enclosure design include: Higher efficiency and increased low-frequency extension (above the tuned frequency of the vent).

Disadvantages of a vented enclosure design include: Higher distortion below the tuned frequency of the vent, more complex design and fabrication, larger in size than a sealed enclosure, and less-transient in-vehicle accuracy.



Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W8102SPL	TS-W5102SPL	TS-W3002D4	TS-W2502D4	TS-W310D4	TS-W310S4	TS-W260D4	TS-W260S4	TS-W309D2
Enclosure Volume (l)									
Center	92.0	56.6	34.0	25.5	42.5	42.5	31.1	31.1	42.5
Box Dimensions: W x H x D (mm)	—	—	382 x 381 x 325	342 x 342 x 314	461 x 373 x 338	461 x 373 x 338	396 x 353 x 314	396 x 353 x 314	461 x 373 x 338
Port Size: d x l (mm)	—	—	ø76 x 89	ø76 x 95	ø76 x 152	ø76 x 140	ø76 x 190	ø76 x 178	ø76 x 127
Min.	83.0	50.9	22.6	17.0	35.4	35.4	25.5	25.5	35.4
Max.	101.4	62.3	45.3	34.0	56.6	56.6	42.5	42.5	56.6

Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W310	TS-W304R	TS-W254R	TS-SW3001S4	TS-SW3001S2	TS-SW2501S4	TS-SW2501S2	TS-SW841D	TS-SW301	TS-SW251
Enclosure Volume (l)										
Center	42.5	42.5	31.1	22.6	22.6	17.0	17.0	11.3	22.6	17.0
Box Dimensions: W x H x D (mm)	461 x 373 x 338	461 x 373 x 338	396 x 353 x 314	—	—	—	—	—	—	—
Box Dimensions: W x H x D1 x D2 (mm)	—	—	—	769 x 357 x 107 x 164	769 x 357 x 107 x 164	714 x 320 x 102 x 152	714 x 320 x 102 x 152	618 x 290 x 100 x 131	769 x 357 x 107 x 164	714 x 320 x 102 x 152
Port Size: d x l (mm)	ø76 x 165	ø76 x 165	ø76 x 203	ø76 x 266.7	ø76 x 279.4	ø76 x 292.1	ø76 x 317.5	ø64 x 152.4	ø76 x 254	ø76 x 203
Min.	35.4	35.4	25.5	18.4	18.4	14.2	14.2	7.1	18.4	11.3
Max.	56.6	56.6	42.5	28.3	28.3	19.8	19.8	14.2	28.3	22.6

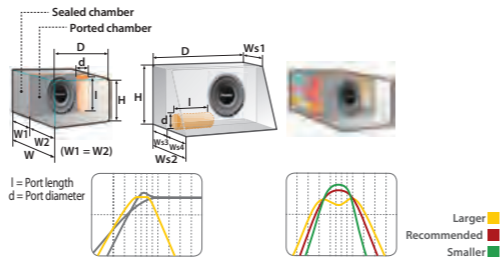
* Measured externally. 19 mm MDF particle board recommended.

BANDPASS ENCLOSURES

The most complex of the common enclosures is a Band-pass enclosure. While there are several types (also called orders) of Bandpass designs, the most commonly used design is referred to as a single-reflex (or a 4th order) Bandpass. A single-reflex Bandpass enclosure consists of a subwoofer loaded into a small sealed enclosure fires into a vented chamber. As the sound waves from the subwoofer travel through the vented chamber upper midbass frequencies are filtered out, allowing only the low frequency bands to pass through - hence the name: Bandpass.

Advantages of a Bandpass enclosure design include: High efficiency over a narrow of low frequencies and some filtering characteristics.

Disadvantages of a Bandpass enclosure design include: decreased frequency response, sluggish frequency response, extreme complexity in design and assembly, larger enclosure size, and decreased power handling.



Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W8102SPL	TS-W5102SPL	TS-W3002D4	TS-W2502D4	TS-W310D4	TS-W310S4	TS-W260D4	TS-W260S4	TS-W309D2
Enclosure Volume (l)									
Center (Sealed Chamber/Ported Chamber)	56.6/56.6	35.4/35.4	28.3/28.3	22.6/22.6	25.5/25.5	25.5/25.5	17.0/17.0	17.0/17.0	25.5/25.5
Box Dimensions: W x H x D (mm)	—	—	531 x 377 x 377	567 x 330 x 330	481 x 385 x 385	481 x 385 x 385	449 x 332 x 332	449 x 332 x 332	481 x 385 x 385
Port Size: d x l (mm)	—	—	ø76 x 178	ø76 x 203	ø76 x 127	ø76 x 127	ø76 x 152	ø76 x 178	ø76 x 114
Min. (Sealed Chamber/Ported Chamber)	50.9/50.9	31.7/31.7	22.6/22.6	17.0/17.0	19.8/19.8	19.8/19.8	12.7/12.7	12.7/12.7	19.8/19.8
Max. (Sealed Chamber/Ported Chamber)	62.3/62.3	38.9/38.9	34.0/34.0	28.3/28.3	31.1/31.1	31.1/31.1	22.6/22.6	22.6/22.6	31.1/31.1

Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W310	TS-W304R	TS-W254R	TS-SW3001S4	TS-SW3001S2	TS-SW2501S4	TS-SW2501S2	TS-SW841D	TS-SW301	TS-SW251
Enclosure Volume (l)										
Center (Sealed Chamber/Ported Chamber)	25.5/25.5	25.5/25.5	17.0/17.0	17.0/17.0	17.0/17.0	12.7/12.7	12.7/12.7	9.9/9.9	17.0/17.0	12.7/12.7
Box Dimensions: W x H x D (mm)	481 x 385 x 385	481 x 385 x 385	449 x 332 x 332	—	—	—	—	—	—	—
Box Dimensions: Ws1 x Ws2 x H x D (mm)	—	—	—	180 x 306 x 388 x 559	180 x 306 x 388 x 559	197 x 277 x 338 x 509	197 x 277 x 338 x 509	177 x 257 x 290 x 529	180 x 306 x 388 x 559	197 x 277 x 338 x 509
Box Dimensions: Ws3 x Ws4 (mm)	—	—	—	121.5 x 184.5	121.5 x 184.5	118.5 x 158.5	118.5 x 158.5	108.5 x 148.5	121.5 x 184.5	118.5 x 158.5
Port Size: d x l (mm)	ø76 x 114	ø76 x 114	ø76 x 165	ø76 x 152.4	ø76 x 152.4	ø76 x 177.8	ø76 x 177.8	ø76 x 152.4	ø76 x 127	ø76 x 178
Min. (Sealed Chamber/Ported Chamber)	19.8/19.8	19.8/19.8	12.7/12.7	14.2/14.2	14.2/14.2	9.9/9.9	9.9/9.9	7.1/7.1	14.2/14.2	9.9/9.9
Max. (Sealed Chamber/Ported Chamber)	31.1/31.1	31.1/31.1	22.6/22.6	22.6/22.6	22.6/22.6	17.0/17.0	17.0/17.0	11.3/11.3	22.6/22.6	17.0/17.0

* Measured externally. 19 mm MDF particle board recommended.

Symbols for Special Features

- Display**
- Touch Panel Screen
- 7.0W
- 6.1W
- 3.5W
- 3.0W
- VGA
- OEL
- LED
- FULL DOT LCD
- VA LCD
- MULTI-LANGUAGE DISPLAY
- Touch Panel Screen
- 7.0-inch Wide Screen
- 6.1-inch Wide Screen
- 3.5-inch Wide Screen
- 3.0-inch Wide Screen
- VGA Display
- OEL Display
- LED Backlight
- Full Dot LCD Display
- VA LCD Display
- Multi-Language Display

- Media & Format**
- DVD VIDEO
- DVD-R/RW
- CD-R/RW
- MP3
- WMA
- AAC
- JPEG
- DIVX
- DOLBY DIGITAL
- DOLBY DIGITAL
- DVD Video Compatible
- DVD-R/RW Compatible
- CD-R/RW Compatible
- MP3 (MPEG Audio Layer-3)
- WMA (Windows Media™ Audio)
- iTunes AAC (Advanced Audio Coding)
- Jpeg Image Viewer
- DivX Digital Media
- Dolby® Digital Decoder

- Connectivity**
- Made for iPod iPhone
- Smartphone Compatible
- ADVANCED APP MODE
- Bluetooth
- Bluetooth Adapter Ready
- Voice Control
- SD/SDHC Memory Card Compatible
- AUX IN
- USB
- Dual USB
- 1A
- Back Up Camera
- TVS
- Made for iPod iPhone
- Made for iPod and iPhone Products
- Smartphone powered by Android Compatible
- Advanced App Mode
- Built-in Bluetooth®
- Bluetooth Adapter Ready
- Voice Control
- SD/SDHC Memory Card Compatible
- AUX-In Connectivity (mini-jack)
- USB Direct Connection
- Dual USB Ports
- 1A High Current USB
- Back Up Camera Ready
- Pioneer TV Tuner Ready

- Audio**
- MIXTRAX
- MIXTRAX EZ
- Hi-VOLT
- 4RCA
- Subwoofer control
- 24bit
- Auto EQ
- SONIC CENTER CONTROL
- Dual Zone
- SUPER TUNER III D
- RDS
- MOSFET 50Wx4
- DSP
- Specialized Audio Parts
- MIXTRAX
- MIXTRAX EZ
- Hi-Volt Preout
- RCA Preout
- Subwoofer Control
- 24-Bit DA Converter
- Auto EQ
- Sonic Center Control
- Dual Zone Audio/Video
- Supertuner® III D
- Radio Data System
- Shortwave Tuner
- MOSFET 50 W x 4
- Digital Signal Processor
- Specialized Audio Parts

- Amplifier**
- Variable HPF
- Variable LPF
- HPF
- LPF
- RCA IN/OUT
- RCA INPUT
- SPEAKER INPUT
- Bass Boost
- Bass Boost Remote
- Class FD
- 1ohm
- Variable High Pass Filter
- Variable Low Pass Filter
- High Pass Filter
- Low Pass Filter
- RCA Input/Output
- RCA Input
- Speaker Level Inputs
- Bass Boost
- Bass Boost Remote
- Class FD
- 1 Ohm Load Impedance

- General**
- MUSIC BROWSER
- DETACHABLE FACE SECURITY
- AUTO FLAP
- FLAP FACE
- MULTIPLE COLOR DISP
- FLASHPRO
- FLASHING COLOR
- LEVER KEY
- Rotary Commander
- WIRED REMOTE INPUT
- ANTI-DUST DESIGN
- Music Browser
- (please refer to page 33 for details)
- Detachable Face Security™ (DFS)
- Auto Flap Face
- Flap Face
- Color Customization
- Separated Color Customization
- Flashing Color
- Lever Key
- Rotary Commander
- Wired Remote Input
- Anti-Dust Design

- Subwoofer & Speaker**
- OPEN & SMOOTH
- ib-FLAT
- AIR SUSPENSION
- MICA MATRIX CONE
- IMPJ
- KEVLAR
- HOLOGRAM
- Open & Smooth Sound Concept
- (please refer to page 70 for details)
- ib-FLAT Subwoofer
- (please refer to page 59 for details)
- Air Suspension System
- (please refer to page 67 for details)
- Multilayer Mica Matrix Cone
- (please refer to page 80 for details)
- IMPJ (Injection-Molded Polypropylene) Composite Cone
- (please refer to page 76 for details)
- KEVLAR® Brand Fiber
- Pioneer 3D Hologram Sticker Attached to Product Packaging Carton (please refer to pages 58 and 70 for details)

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