

*Pioneer*

AUDIO & AV 2016  
CAR ENTERTAINMENT



# 2016 PIONEER NEW PRODUCTS

Now extending a fresh style of entertainment, connectivity, quality and convenience on the high road toward more sensational experiences in every sense.

## ENTERTAINMENT

Move with MIXTRAX® to create non-stop mixes with DJ effects and flashing light pulsing to music beats. Choose among over 210,000 colors of light from the receiver to complement car interior illumination. Music streaming for playing your favorites among millions of available songs opens up endless excitement.

## QUALITY

Pioneer AV and audio receivers feature specially designed and selected parts supporting superior sound, exclusive technologies reinforcing specific sound fields, and precise manual control. Moreover, brilliant reproduction of sound by FLAC files surpasses playback of CD tracks in terms of audio quality.

## CONNECTIVITY

Taking advantage of smartphone support, Pioneer in-car entertainment connections combine the capabilities of AppRadio™ Mode for easy viewing and touchscreen operation of favorite apps in iPhone® and Android™ phones; Apple CarPlay® and Android Auto™ entertainment control via voice command; and, in Pioneer audio receivers, the original Pioneer ARC app for play and control of music sources and apps in an iPhone, iPod touch® or Android device via audio receiver or smartphone.

## CONVENIENCE

Enjoy simpler, safer receiver operation. Wide Band Speech support for Bluetooth® Hands-Free calling makes you sound much clearer. Siri Eyes Free lets you control your iPhone by voice, so you can watch the road better. An advanced user interface featuring new clear-type resistive high-visibility touchscreen gives you more intuitive control and utility.

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# GET TOTALLY CONNECTED

# ENTERTAINMENT EVERLASTING

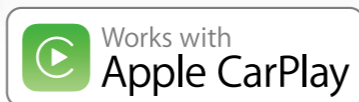


Get online with ease wherever you go. All your favorite entertainment and information is now more conveniently available in one place right in your car. With your mobile device connected, a Pioneer receiver provides instant access to various and comprehensive content sources you'll ever need.

For non-stop musical euphoria just as you like it, get into the stream of your favorite music and effects. You may never want to leave!



 **AppRadioLIVE**

 Works with Apple CarPlay

**android**auto



 **Spotify**

**MIXTRAX**



KEY FEATURES STEP-UP COMPARISON CHART

	Display	Preout	CD Player	Audio Format	AUX Input (Mini-Jack)	USB Interface <sup>1</sup>	Direct Control for iPod/iPhone <sup>2</sup>	Direct Control for Certain Android Phones <sup>3</sup>	Pioneer ARC	SD/SDHC Memory Card Slot	Bluetooth <sup>4</sup>	MIXTRAX <sup>5</sup> Flashing Color	Music Browser	Color Customization	Advanced Sound Retriever	Page Number
DEX-P99RS	Full Dot OEL 3-Line	4 (5 V)		MP3 WMA AAC WAV	Front	Rear	USB				With CD-BT8200					24
DEH-80PRS	Full Dot LCD 3-Line	3 (5 V)		MP3 WMA AAC WAV	Front	Rear x 2	USB									26
DEH-9450UB	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV	Rear	Rear x 2	USB									29
DEH-X9650BT	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV	Front	Rear x 2	USB	USB			HFP A2DP AVRCP SPP					30
DEH-X9650SD	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV	Front	Rear x 2	USB	USB								30
DEH-X8750BT	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV FLAC <sup>6</sup>	Rear	Rear	USB	USB			HFP A2DP AVRCP SPP					31
DEH-X7750UI	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV FLAC <sup>6</sup>	Rear	Rear	USB	USB								31
DEH-X6850BT	Wider VA LCD 2-Line (13x1+Sub)	2		MP3 WMA AAC WAV	Front	Front <sup>7</sup>	USB	USB			HFP A2DP AVRCP SPP					32
DEH-X3850UI	Wider VA LCD 2-Line (13x1+Sub)	2		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								32
DEH-X4850BT	Wider VA LCD (13x1)	2		MP3 WMA AAC WAV	Front	Front <sup>7</sup>	USB	USB			HFP A2DP AVRCP SPP					33
DEH-X4850FD	Wider VA LCD (13x1)	2		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								36
DEH-X2850UI	Wider VA LCD (13x1)	2		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								33
DEH-X1850UB DEH-X1850UBG	Wider VA LCD (13x1)	1		MP3 WMA WAV	Front	Front <sup>7</sup>		USB								33

	Display	Preout	CD Player	Audio Format	AUX Input (Mini-Jack)	USB Interface <sup>1</sup>	Direct Control for iPod/iPhone <sup>2</sup>	Direct Control for Certain Android Phones <sup>3</sup>	Pioneer ARC	SD/SDHC Memory Card Slot	Bluetooth <sup>4</sup>	MIXTRAX <sup>5</sup> Flashing Color	Music Browser	Color Customization	Advanced Sound Retriever	Page Number
DEH-155MP DEH-155MPG	LCD (12x1)	1		MP3 WMA WAV	Front											45
FH-X575UI	VA LCD 2-Line (13x1+Sub)	2		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								34
FH-X385UB	Wider VA LCD 2-Line (13x1)	2		MP3 WMA WAV	Front	Front <sup>7</sup>		USB								34
MVH-X385BT	Wider VA LCD (13x1)	1		MP3 WMA AAC WAV	Front	Front <sup>7</sup>	USB	USB			HFP A2DP AVRCP SPP					35
MVH-X285FD	Wider VA LCD (13x1)	2		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								37
MVH-X185UI	Wider VA LCD (13x1)	1		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								35
DXT-X1869UB DXT-X186UB	Wider VA LCD (13x1)	1		MP3 WMA WAV	Front	Front <sup>7</sup>		USB								38
MXT-X386BT	Wider VA LCD (13x1)	1		MP3 WMA AAC WAV	Front	Front <sup>7</sup>	USB	USB			HFP A2DP AVRCP SPP					39
MXT-X186UI	Wider VA LCD (13x1)	1		MP3 WMA WAV	Front	Front <sup>7</sup>	USB	USB								39

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. Compatibility with unit depends on iPod generation. Requires use of optional cable.

\*3. Not all Android phones are compatible.

\*4. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile, 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. For the files stored in USB thumb drive.

\*7. 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.

\*8. 125 colors. Key illumination only.

\*9. 210,000 colors (separated). Colors for key illumination and display are separately adjustable.

\*10. Also available for Bluetooth Wireless Audio.

KEY FEATURES STEP-UP COMPARISON CHART

	DIN Size	Display	Preout	Playback	Video Format	Audio Format	AUX Input (Mini-Jack)	USB Interface	SD/SDHC Memory Card Slot	HDMI Input	Direct Control for iPod/iPhone*	Direct Control for Certain Android Phones**	AppRadio Mode†	Apple CarPlay Compatible‡	Android Auto™ Compatible§	Works with Spotify¶	Built-in MirrorLink™**	Bluetooth**	MIXTRAX	Dual Zone Audio/Video	Auto EQ Auto Time Alignment	Advanced Sound Retriever	Back-Up Camera Ready	Page Number
AVH-X6750BT	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264** FLV** WMV** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear x 2			USB Bluetooth	Bluetooth	iPhone Android†					HFP A2DP AVRCP SSP SPP			CD-MC20		ND-BC8 ND-BC20PA	09
AVH-X5850BT	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear			USB Bluetooth	USB Bluetooth	iPhone Android† (AppRadio Mode USB)			iPhone Android†		HFP A2DP AVRCP SSP SPP	**		CD-MC20		ND-BC8 ND-BC20PA	10
AVH-X4850DVD	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear			USB	USB	iPhone Android† (AppRadio Mode USB)			iPhone			**		CD-MC20		ND-BC8 ND-BC20PA	11
AVH-X2850BT	2-DIN	6.2" LED-WVGA	3 (4 V)	DVD/CD	H.264** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear			USB Bluetooth	USB Bluetooth	iPhone Android† (AppRadio Mode USB)			iPhone Android†		HFP A2DP AVRCP SSP SPP	**		CD-MC20		ND-BC8 ND-BC20PA	10
AVH-X1850DVD	2-DIN	6.2" LED-WVGA	3 (4 V)	DVD/CD	H.264** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear			USB	USB	iPhone Android† (AppRadio Mode USB)			iPhone			**		CD-MC20		ND-BC8 ND-BC20PA	11
AVH-285BT	2-DIN	6.2" LED-WVGA	2 (2 V)	DVD/CD	DivX MPEG-1/1.1/2/1.4	WAV MP3 WMA AAC	Rear	Rear			USB							HFP A2DP AVRCP SSP SPP					ND-BC8 ND-BC20PA	13
AVH-185DVD	2-DIN	6.2" LED-WVGA	2 (2 V)	DVD/CD	DivX MPEG-1/1.1/2/1.4	WAV MP3 WMA AAC	Rear	Rear			USB												ND-BC8 ND-BC20PA	13
AVH-X7850BT	1-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear			USB Bluetooth	USB Bluetooth	iPhone Android† (AppRadio Mode USB)			iPhone Android†		HFP A2DP AVRCP SSP SPP	**		CD-MC20		ND-BC8 ND-BC20PA	12
AVH-X6850DVD	1-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264** DivX** MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC FLAC**	Rear	Rear			USB	USB	iPhone Android† (AppRadio Mode USB)			iPhone			**		CD-MC20		ND-BC8 ND-BC20PA	12
AVH-3850DVD	1-DIN	7.0" LED-WVGA	3 (2 V)	DVD/CD	DivX MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC	Front	Front															ND-BC8 ND-BC20PA	13
DVH-885AVBT	1-DIN	3.5"	2 (4 V)	DVD/CD	DivX MPEG-1/1.1/2/1.4	MP3 WMA AAC	Front	Front			USB**	Bluetooth						HFP A2DP AVRCP SSP SPP					ND-BC8 ND-BC20PA	20
DVH-785AV	1-DIN	3.0"	2 (2 V)	DVD/CD	DivX MPEG-1/1.1/2/1.4	MP3 WMA	Front	Front															ND-BC8 ND-BC20PA	20
DVH-345UB	1-DIN		2 (2 V)	DVD/CD	DivX MPEG-1/1.1/2/1.4	WAV** MP3 WMA AAC	Front	Front																21

\*1. Optional cable required. Please refer to page 92 for compatibility.

\*\*2. Not all Android phones are compatible.

\*\*3. CD-iU52 required (sold separately).

\*\*4. CD-MU200 required (sold separately).

\*\*5. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile, SSP = Secure Simple Profile, SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.

\*\*6. Only for USB Devices or SD Memory Card.

\*\*7. Only for DVD or CD.

\*\*8. 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).

\*\*9. Only for audio files.



## CONNECTIVITY

### AppRadio Mode

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

AppRadio Mode\* allows compatible applications on an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s\*\*, iPhone 4\*\*, 5th generation iPod touch, 4th\*\* generation iPod touch, or Android™ phone\*\*\* to be viewed and controlled directly from the receiver's touchscreen display.

\* AppRadio Mode USB (not for iPod touch): Compatible with AVH-X5850BT, AVH-X4850DVD, AVH-X2850BT, AVH-X1850DVD, AVH-X7850BT and AVH-X6850DVD.

\*\* Compatible with AVH-X8750BT.

\*\*\* Not all Android phones are compatible.

### AppRadio MODE



### AppRadioLIVE

The AppRadioLIVE App gives you access to all the elements of your digital lifestyle in one place via AppRadio Mode.



### Apple CarPlay NEW

AVH-X8750BT

Apple CarPlay is the safer, smarter and more fun way to use your iPhone in the car. It launches automatically by just plugging in.



### Android Auto™ NEW

AVH-X8750BT

Android Auto extends the Android platform into the car in a way that's purpose-built for driving.



### Bluetooth®

AVH-X8750BT AVH-X5850BT AVH-X2850BT AVH-X7850BT AVH-285BT DVH-885AVBT

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



### Built-in MirrorLink™

AVH-X8750BT

By using the optional cable CD-MU200, you can directly access music, maps, and contacts on select MirrorLink™ certified devices via USB directly from the receiver's touchscreen.

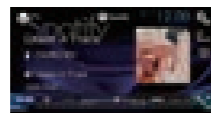


## AUDIO

### Works with Spotify® NEW

AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Spotify gives you all the music you'll ever need. Find the songs you love instantly, or let Spotify play you something great. With support for Spotify, just connect your compatible smartphone to Pioneer Receiver to fill your ride with everything from classic tracks to the latest hits.



### Support FLAC Codec\* NEW

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD

AVH-X7850BT AVH-X6850DVD

New Pioneer AV receiver upgrades in-car audio with amazingly brilliant reproduction of sound by FLAC files surpass CD tracks in terms of playback audio quality.

\* For the files stored in USB thumb drive.



## OTHERS

### Clear Type Resistive Touch Panel NEW

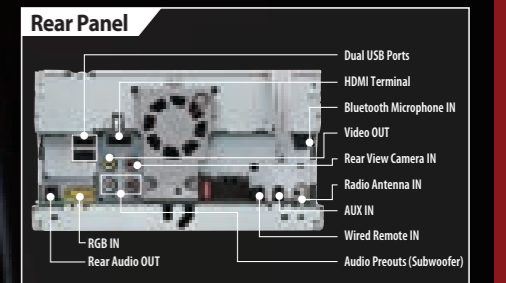
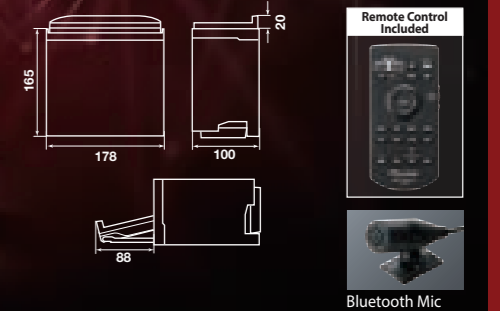
All Receivers (Except AVH-3850DVD, DVH-885AVBT, DVH-785AV and DVH-345UB)

The new Pioneer AV receivers' display panel are designed as beautifully crisp and it brings you enhanced visibility.



## AVH-X8750BT NEW

In-Dash Double-DIN Flagship DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Built-in MirrorLink™, Dual USB, and SD Card Slot



7.0W VEGA H.264 MP3 WMA AAC DIVX  
 H.264 MP3 WMA AAC DIVX  
 DOLBY DIGITAL APP MODE IN HDMI iDual  
 3RCA Hi-VOLT 24bit Hi-Fi Tuner Ready RDS  
 SUPER TUNER MOSFET 50Wx4 Siri Eyes Free Back Up Camera

MIXTRAX AppRadio MODE

Works with Apple CarPlay

android auto

Made for iPod iPhone

Smartphone Compatible MirrorLink Bluetooth Dual USB

### Key Selling Points

Point 1  
Pages 14-16

Enhanced and advanced smartphone connectivity for today's smartphone-driven lifestyle including compatibility with Apple CarPlay, Android Auto™ and AppRadio Mode.



Point 2  
Page 17

Experience non-stop music playback based on music data analysis that delivers a seamless mix created by a virtual DJ.



Point 3  
Page 19

An all new smartphone-inspired user interface provides an easy-to-use and intuitive experience.

### Main Features (Blue text: upgraded features from AVH-X5850BT)

- MIXTRAX
- Siri Eyes Free
- Hi-Volt RCA Preouts x 3 (4V)
- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Dual USB Ports (Rear: High Current 1 A Handling Capability)
- 13-Band Graphic EQ
- Multi-Language Display\* (Menu/ID3 Tag)
- Auto EQ & Auto Time Alignment (CD-MC20 Required)
- Color Customization (5-Display Colors and 112-Key Colors)
- SD/SDHC Memory Card Slot
- Pioneer TV Tuner Ready (GEX-1550DTV for RD Model/GEX-1550TV for RC and RI Models)\*
- Direct Control for iPod/iPhone (USB/Bluetooth)
- AUX Input (Audio/Video)
- JPEG Slide Show
- Direct Control for Certain Android Phones (Bluetooth)
- HDMI Input
- Back-Up Camera Ready
- AppRadio Mode for iPod/iPhone & Certain Android Phones
- RGB Input
- Detachable Face Security™
- App Mode
- DVD/CD Player with DVD Video Playback
- Wired Remote Input
- Apple CarPlay Compatible
- H.264/FLV/WMV/MPEG-4/MP3/WMA/iTunes® AAC/WAV/FLAC\*\* Playback from SD Memory Card/USB Device
- Display Off Mode
- Android Auto Compatible
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from DVD/CD
- Built-in MirrorLink™
- Dual Zone Audio/Video
- Advanced Sound Retriever
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- SR Air
- MOSFET 50 W x 4

### iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode Compatible)
iPhone 4s (AppRadio Mode Compatible)
iPhone 4 (AppRadio Mode Compatible)
iPhone 3GS
iPod touch (2nd, 3rd, 4th, and 5th* generation)
iPod classic*
iPod nano* (3rd, 4th, 5th, 6th, and 7th generation)

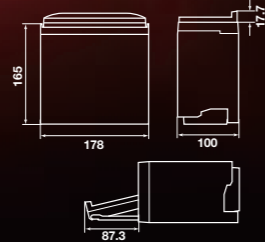
Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

\* See page 19 for more details.  
\*\* For the files stored in USB thumb drive.  
See page 89 for accessories.

\* AppRadio Mode Compatible.

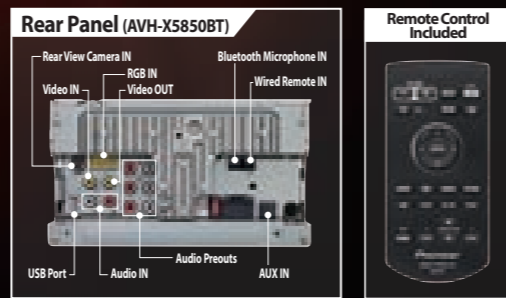
# AVH-X5850BT NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



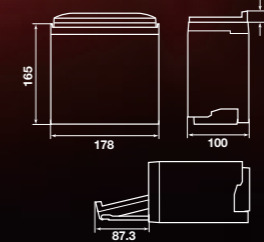
# AVH-X2850BT NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth, and Direct Control for iPod/iPhone and Certain Android Phones



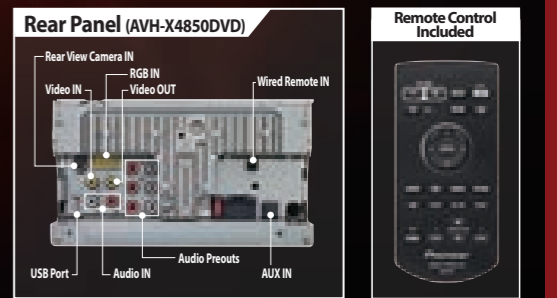
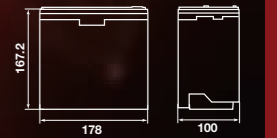
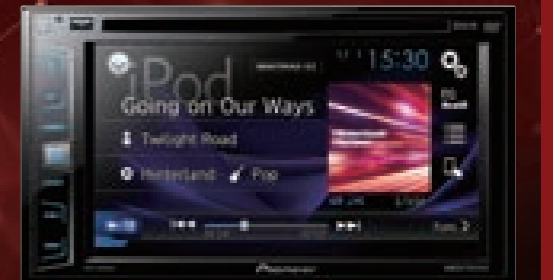
# AVH-X4850DVD NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



# AVH-X1850DVD NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



7.0W/6.2W\*1, VEGA, LED, MULTIPLE LANGUAGE DISPLAY, DVD, H.264, MIXTRAX, Bluetooth, Spotify, Smartphone Compatible, Made for iPod iPhone, AppRadio MODE, 24bit, Auto EQ, TVS, RDS, SUPER/TUNER, MOSFET 50Wx4, Siri Eyes Free, Back Up Camera

\*1. 6.2-inch display: AVH-X2850BT.

7.0W/6.2W\*1, VEGA, LED, MULTIPLE LANGUAGE DISPLAY, DVD, H.264, MIXTRAX, Spotify, Smartphone Compatible, Made for iPod iPhone, AppRadio MODE, 24bit, Auto EQ, TVS, RDS, SUPER/TUNER, MOSFET 50Wx4, Back Up Camera

\*1. 6.2-inch display: AVH-X1850DVD.

## Key Selling Points

**Point 1**  
Pages 14-15  
Experience the exclusive in smartphone connectivity with AppRadio Mode USB by simple cable connection.



**Point 2**  
Page 17  
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**  
Page 18  
Enjoy superior in-car AV performance with 13-Band Graphic EQ, FLAC codec playback\* and other high quality functions.



\* For the files stored in USB thumb drive.

## Common Main Features (Blue text: upgraded features from AVH-285BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Multi-Language Display\* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- AppRadio Mode USB for iPod/iPhone & Certain Android Phones
- App Mode
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player with DVD Video Playback
- H.264/MPEG-4/MP3/WMA/iTunes AAC/WAV/FLAC Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Advanced Sound Retriever
- MOSFET 50W x 4
- Hi-Volt RCA Preouts x 3 (4 V)
- 13-Band Graphic EQ
- Auto EQ & Auto Time Alignment (CD-MC20 Required)
- 3-Way Network Mode (High/Mid/Low)
- Pioneer TV Tuner Ready (GEX-1550DTV for RD Model/ GEX-1550TV for RC and RI Models)\*
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Power Off Mode
- Display Off Mode
- Steering Wheel Control Function Expansion
- RDS

\* See page 19 for more details.  
See page 89 for accessories.

### AVH-X5850BT Main Features (Blue text: upgraded features from AVH-X4850DVD)

- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB/Bluetooth)
- Works with Spotify® (iPhone/Android)
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- SR Air

### AVH-X4850DVD Main Features (Blue text: upgraded features from AVH-X2850BT)

- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Works with Spotify (iPhone)

### AVH-X2850BT Main Features (Blue text: upgraded features from AVH-X1850DVD)

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB/Bluetooth)
- Works with Spotify (iPhone/Android)
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- SR Air

### AVH-X1850DVD Main Features (Blue text: upgraded features from AVH-285BT)

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Works with Spotify (iPhone)

## iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode USB Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode USB Compatible)
iPhone 4s
iPhone 4
iPhone 3GS
iPod touch (2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod nano (3rd, 4th, 5th, 6th, and 7th generation)

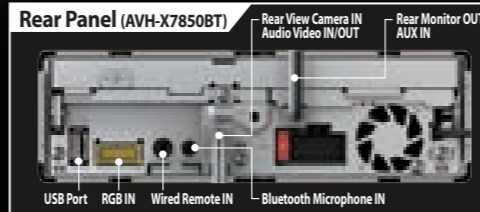
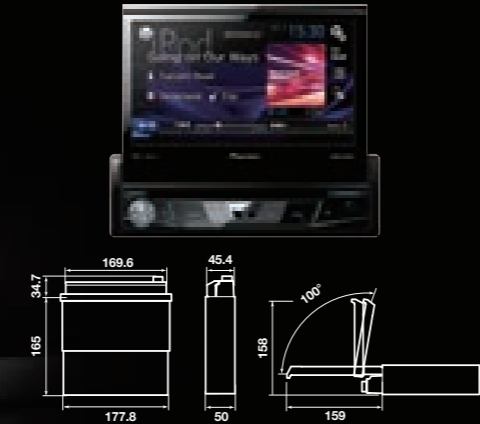
Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

# AVH-X7850BT NEW

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones

# AVH-X6850DVD NEW

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



7.0W **VGA** **LED** **MULTI-LANGUAGE DISPLAY** **DVD VIDEO** **H.264** **MIXTRAX** **Bluetooth** **Spotify** **Smartphone Compatible** **Made for iPod iPhone**

MP3 WMA AAC **DIWX** **DOLBY DIGITAL** **APP MODE** **USB** **FM** **3 RCA** **Hi-VOLT** **24bit** **Bluetooth** **AppRadio MODE**

**Auto EQ** **TVS** **RDS** **SUPER TUNER III** **MOSFET 50Wx4** **Siri Eyes Free** **Back Up Camera Ready**

Note: "Bluetooth Wireless Technology" and "Siri Eyes Free" for AVH-X7850BT.

## Key Selling Points

**Point 1**  
Pages 14-15  
**Experience the exclusive in smartphone connectivity with AppRadio Mode USB by simple cable connection.**

**AppRadio MODE** **Made for iPod iPhone**



**Point 2**  
Page 17  
**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**  
Page 18  
**Enjoy superior in-car AV performance with 13-Band Graphic EQ, FLAC codec playback\* and other high quality functions.** \* For the files stored in USB thumb drive.



### Common Main Features (Blue text: upgraded features from AVH-3850DVD)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display\* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- AppRadio Mode USB for iPod/iPhone & Certain Android Phones
- App Mode
- USB Port (Rear: High Current 1 A Handling Capability)
- AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player with DVD Video Playback
- H.264/MPEG-4/MP3/WMA/iTunes® AAC/WAV/FLAC Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Hi-Volt RCA Preouts x 3 (4 V)
- 13-Band Graphic EQ
- Auto EQ & Auto Time Alignment (CD-MC20 Required)
- 3-Way Network Mode (High/Mid/Low)
- Pioneer TV Tuner Ready (GEX-1550DTV for RD Model/GEX-1550TV for RC and RI Models)\*
- JPEG Slide Show
- Back-Up Camera Ready
- Rotary Volume Control
- Detachable Face Security™
- Wired Remote Input
- Power Off Mode
- Display Off Mode
- Steering Wheel Control Function Expansion
- RDS

\* See page 19 for more details. See page 89 for accessories.

#### AVH-X7850BT Main Features

- (Blue text: upgraded features from AVH-X6850DVD)
- Direct Control for iPod/iPhone (USB/Bluetooth)
  - Direct Control for Certain Android Phones (USB/Bluetooth)
  - Works with Spotify® (iPhone/Android)
  - Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
  - Siri Eyes Free
  - SR Air

#### AVH-X6850DVD Main Features

- (Blue text: upgraded features from AVH-3850DVD)
- Direct Control for iPod/iPhone (USB)
  - Direct Control for Certain Android Phones (USB)
  - Works with Spotify (iPhone)

#### iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode USB Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode USB Compatible)
iPhone 4s
iPhone 4
iPhone 3GS
iPod touch (2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod nano (3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

# AVH-3850DVD NEW

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



### Main Features

- 7" WVGA Touch Panel Display with LED Backlight
  - Multi-Language Display (Menu/ID3 Tag) (English/Spanish/Portuguese/Russian)
  - USB Port (Front)
  - Front AUX Input (Audio/Video)
  - DVD/CD Player with DVD Video Playback
  - DivX®/MPEG-1, -2, -4/MP3/WMA/iTunes® AAC/WAV Playback from USB Device
  - DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
  - MOSFET 50 W x 4
  - RCA Preouts x 3 (2 V)
  - 3-Band Graphic EQ (Bass/Mid/Treble)
  - Back-Up Camera Ready
  - Rotary Volume Control
  - Wired Remote Input
  - Display Off Mode
- See page 89 for accessories.

Touch Panel Screen **7.0W** **VGA** **LED** **MULTI-LANGUAGE DISPLAY** **DVD VIDEO** **MP3 WMA AAC DIWX** **DOLBY DIGITAL** **USB** **FM** **3 RCA** **MOSFET 50Wx4** **Back Up Camera Ready**

# AVH-285BT NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, Built-in Bluetooth®, and Direct Control for iPod/iPhone



### Main Features (Blue text: upgraded features from AVH-185DVD)

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
  - Multi-Language Display\* (Menu/ID3 Tag)
  - Direct Control for iPod/iPhone (USB)
  - Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
  - USB Port (Rear: High Current 1A Handling Capability)
  - AUX Input (Audio/Video)
  - DVD/CD Player with DVD Video Playback
  - DivX/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
  - DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from CD/DVD
  - MOSFET 50 W x 4
  - RCA Preouts x 2 (2 V)
  - 5-Band Graphic EQ
  - JPEG Slide Show
  - Back-Up Camera Ready
  - Wired Remote Input
  - Display Off Mode
  - RDS
- \* See page 19 for more details. See page 89 for accessories, and 92 for iPod/iPhone Compatibility.

Touch Panel Screen **6.2W** **VGA** **LED** **MULTI-LANGUAGE DISPLAY** **DVD VIDEO** **MP3 WMA AAC DIWX** **DOLBY DIGITAL** **USB** **FM** **3 RCA** **MOSFET 50Wx4** **Back Up Camera Ready** **Bluetooth** **Made for iPod iPhone**

# AVH-185DVD NEW

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, and Direct Control for iPod/iPhone



### Main Features

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
  - Multi-Language Display\* (Menu/ID3 Tag)
  - Direct Control for iPod/iPhone (USB)
  - USB Port (Rear: High Current 1A Handling Capability)
  - AUX Input (Audio/Video)
  - DVD/CD Player with DVD Video Playback
  - DivX/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
  - DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from CD/DVD
  - MOSFET 50 W x 4
  - RCA Preouts x 2 (2 V)
  - 5-Band Graphic EQ
  - JPEG Slide Show
  - Back-Up Camera Ready
  - Wired Remote Input
  - Display Off Mode
  - RDS
- \* See page 19 for more details. See page 89 for accessories, and 92 for iPod/iPhone Compatibility.

Touch Panel Screen **6.2W** **VGA** **LED** **MULTI-LANGUAGE DISPLAY** **DVD VIDEO** **MP3 WMA AAC DIWX** **DOLBY DIGITAL** **USB** **AUX** **3 RCA** **MOSFET 50Wx4** **Back Up Camera Ready** **Made for iPod iPhone**



# CONNECTIVITY

## AppRadio Mode

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD



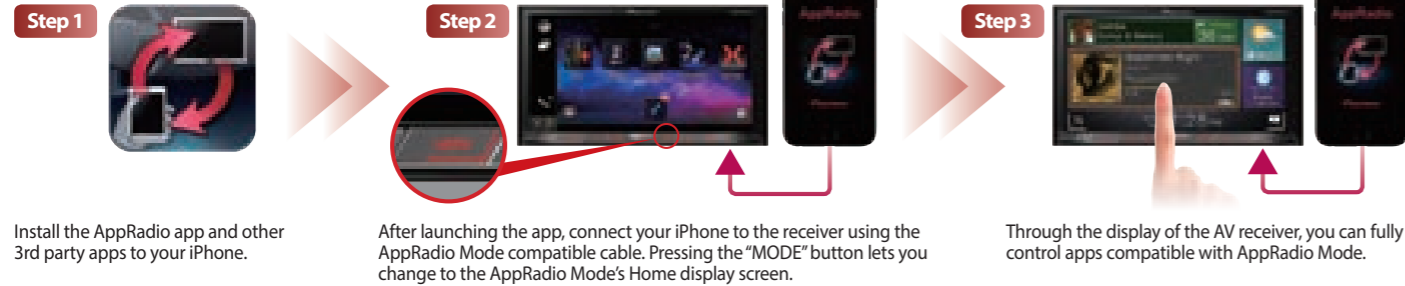
**A Revolutionary Way to Use Apps in the Car**  
 AppRadio Mode\* revolutionizes the driver's smartphone experience by bringing compatible iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s\*\*, iPhone 4\*\*, 5th generation iPod touch, 4th\*\* generation iPod touch, or Android\*\*\* apps to your dash.

\* AppRadio Mode USB (not for iPod touch): Compatible with AVH-X5850BT, AVH-X4850DVD, AVH-X2850BT, AVH-X1850DVD, AVH-X7850BT and AVH-X6850DVD. \*\* Compatible with AVH-X8750BT. \*\*\* Not all Android phones are compatible.



## How to Use AppRadio Mode

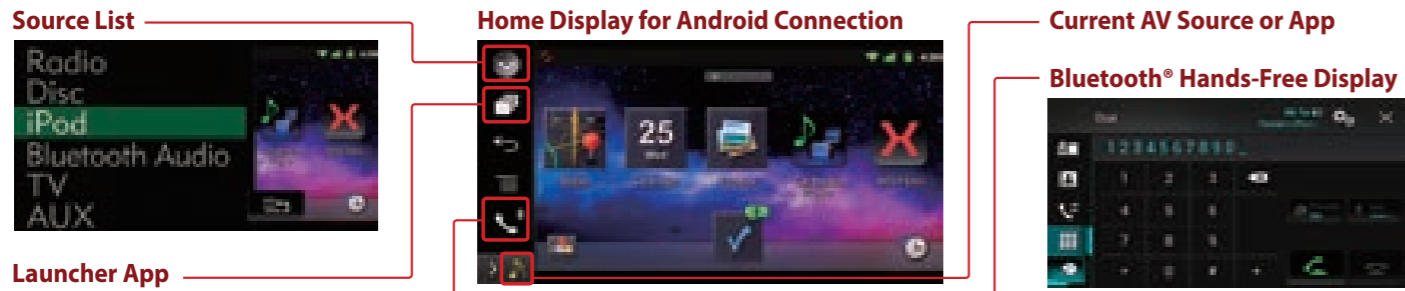
AppRadio Mode (iPhone connectivity example shown)



## Side Control Bar

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Press the Home button twice, and the Side Control Bar goes on display for easy access to the Phone Menu and other Sources.



## AppRadio Mode USB

With connection simplified, worries about selecting the appropriate cable and the corresponding clutter of cables around the center console disappear.



**Easy Connection**

# CONNECTIVITY

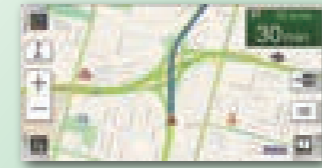
## AppRadioLIVE



AppRadioLIVE App, which is one of the apps that is compatible with AppRadio Mode, gives you access to all elements of your digital lifestyle in one place. Connect your compatible smartphone to a receiver with AppRadio Mode to listen to your favorite music, check the weather, find nearby events and more. AppRadioLIVE delivers fresh content from many popular apps without the need to search and open them individually.

### MAPS

AppRadioLIVE uses the native maps from your smartphone overlaid with INRIX® live traffic data to provide live traffic and incident information to give you an estimated time of arrival at your chosen destination.



### EVENTS

Pioneer keeps you up-to-date on the latest news stories, RSS feeds and weather information with Feedly® and Open Weather Map.



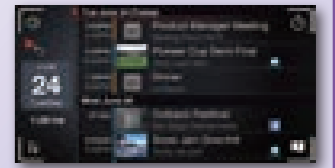
### MEDIA

By putting your favorite music and media in one place, AppRadioLIVE simplifies your drive.



### CALENDAR

AppRadioLIVE keeps your life organized and makes it easier to stay in touch and have fun.



Note: Apps compatible with AppRadioLIVE may differ according to region.

## Built-in Bluetooth®

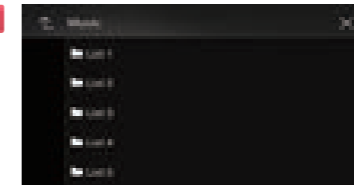
AVH-X8750BT AVH-X5850BT AVH-X2850BT AVH-X7850BT AVH-285BT



### AVRCP Version 1.5

File Browsing can be used through AVRCP 1.5 version of Bluetooth. You can easily search songs in the browsing display.

Note: AVH-X8750BT — AVRCP Version 1.4



### Siri\* Eyes Free Compatible

AVH-X8750BT AVH-X5850BT AVH-X2850BT AVH-X7850BT

Smart voice control lets users access various iPhone functions to select music, make calls from a contact list, etc., without taking their eyes off the road.

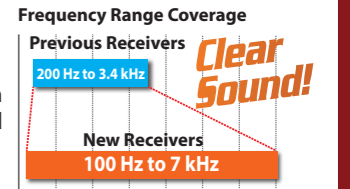
\* Siri is available on iPhone 4s or later, iPad with Retina display, iPad mini, and iPod touch (5th generation) and requires Internet access. Siri may not be available in all languages or in all areas, and features may vary by area. Cellular data charges may apply. Some features may not be available for all countries or all areas.



### HFP Version 1.6

AVH-X8750BT AVH-X5850BT AVH-X2850BT AVH-X7850BT

You can talk with much clearer voice via spread twice band width.



### Two-Phone Full Time Connection NEW

AVH-X5850BT AVH-X2850BT AVH-X7850BT

You can connect two mobile phones (for personal and business use, for example) with the receiver, and an incoming call from either phone can be received without requiring manual switching.



## Built-in MirrorLink™

AVH-X8750BT

Use an interface cable to connect the receiver and a compatible MirrorLink™ certified smartphone. Then, you can directly control and access music, maps, and contacts stored on the smartphone via the receiver's touchscreen.



### CD-MU200

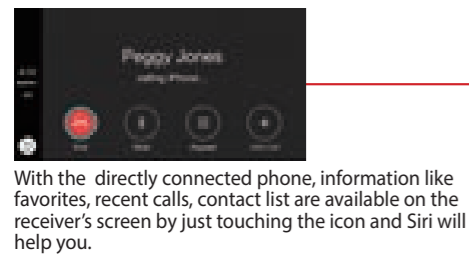
USB Interface Cable for AppRadio Mode USB, Android Use with Android Auto™ and MirrorLink™ Devices (USB-USB Cable: 1.5 m / USB-microUSB Cable: 50 cm)



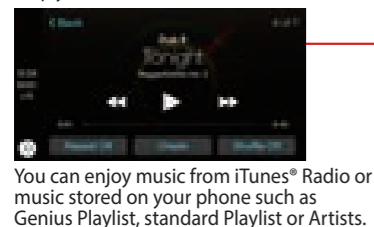
CONNECTIVITY

Apple CarPlay\* NEW

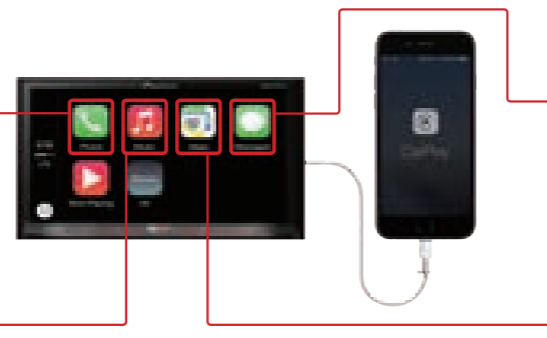
AVH-X8750BT



With the directly connected phone, information like favorites, recent calls, contact list are available on the receiver's screen by just touching the icon and Siri will help you.

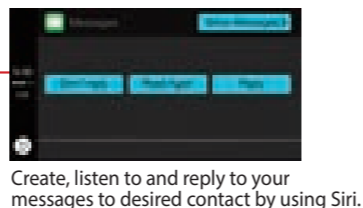


You can enjoy music from iTunes® Radio or music stored on your phone such as Genius Playlist, standard Playlist or Artists.

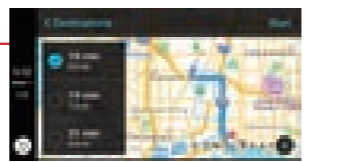


Apple CarPlay is the safer, smarter and more fun way to use your iPhone in the car. It launches automatically by just plugging in.

\* Apple CarPlay is available on Apple iPhone 5 or later with iOS 7.1.2 or higher, and requires Lightning to USB cable.



Create, listen to and reply to your messages to desired contact by using Siri.

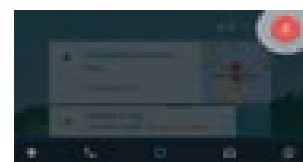


Just tell Siri where you want to go or you can find destinations with a list of previous search histories, or addresses sent to you in text messages and emails.

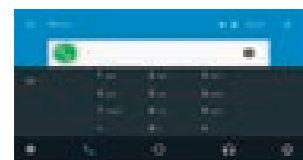
Android Auto™\* NEW

AVH-X8750BT

Android Auto extends the Android platform into the car in a way that's purpose-built for driving.



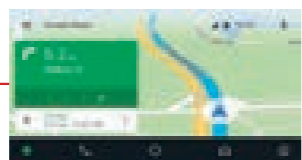
Just say the word — best-in-class speech technology makes controlling everything with your voice fast and easy.



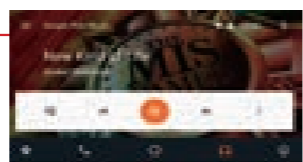
Phone calls can be made easily, directly from the receiver, showing all contacts and call lists stored on the phone.

\* Android Auto is available with Android 5.0 or higher version.

Android Auto automatically brings you useful information, and organizes it into simple cards that appear just when they're needed.

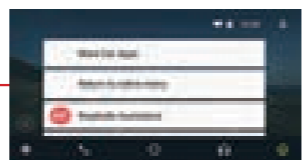


Let Google Maps lead the way. It's easy to get where you're going with free voice-guided navigation, live traffic information, lane guidance, and more.



Your favorite tunes — to go. Access and stream your favorite music with apps like Google Play Music, Spotify and more\*.

\* Available apps depend on regions and countries.



Hit the road with your favorite apps. Android Auto makes it easy to access your favorite apps and content in the car.



Learning Steering Wheel Control

All Receivers

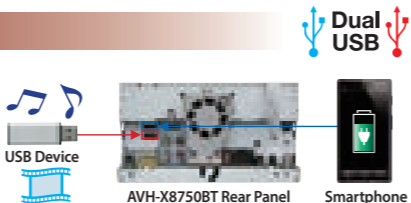
You can now assign certain functions of the receiver to control buttons on the steering wheel.



Dual USB Ports

AVH-X8750BT

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



Direct Control for Certain Android Phones (MTP Mode)

- AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD
- AVH-X7850BT AVH-X6850DVD

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.



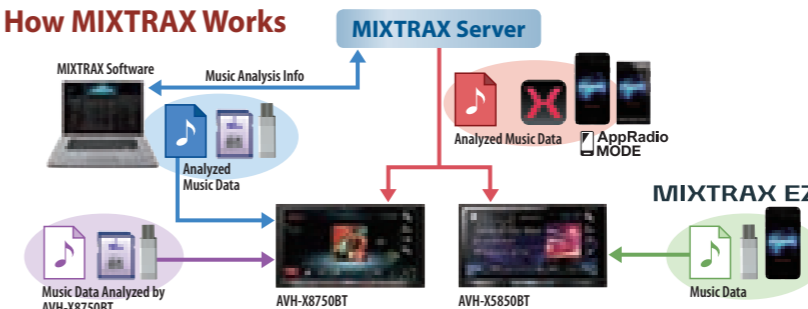
AUDIO

MIXTRAX

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

MIXTRAX

How MIXTRAX Works



MIXTRAX, MIXTRAX App, and MIXTRAX EZ Comparison

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

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

MIXTRAX

AVH-X8750BT

AV Receiver Analysis

The AVH-X8750BT is able to analyze the music, so you can enjoy Non-Stop MIX Play simply by connecting a USB Device or SD Memory Card containing music that has not been analyzed.

PC Analysis

You can analyze music on a PC, then put the analyzed music data on USB Device or SD Memory Card. The AVH-X8750BT allows you to listen it with MIXTRAX function.

MIXTRAX App\*

- AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT
- AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

You can use an iPhone, iPod touch or Android on which the MIXTRAX app is installed, to access analyzed music data on the MIXTRAX server. Then, you can enjoy music with MIXTRAX function via AppRadio Mode.

\* Some models are not yet compatible with MIXTRAX App, so please refer to the Pioneer website for the latest relevant information.

MIXTRAX EZ

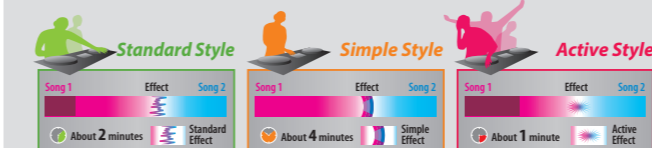
- AVH-X5850BT AVH-X4850DVD AVH-X2850BT
- AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Experience your music as a simple quick non-stop mix. Tracks are joined by various random sound effects and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

MIXTRAX

MIX Style

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



Link Gate

Automatically create a new MIX playlist based on the Artist, Genre, Tempo, or Year of the currently playing song. Now it's even easier to enjoy a Non-Stop MIX that matches your taste.

Display Visualizer

The Display Visualizer provides for cool ambient visuals that enhance the in-car mood. Three shining spheres change their speed and movement based on the music in your Non-Stop MIX.

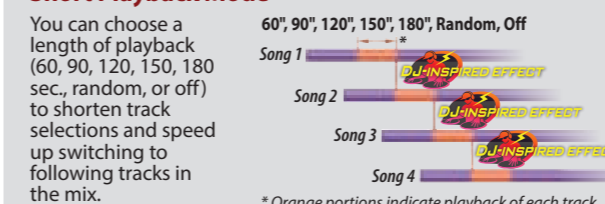
BPM Slider Bar

Change the beats per minute (BPM) of the currently playing music by sliding up or down along the bar.

MIXTRAX EZ

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

Select the desired special sound effects using the setting menu.

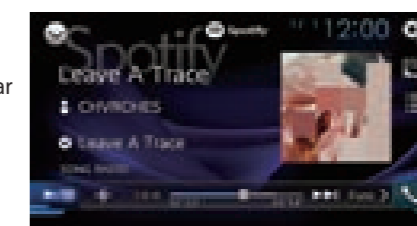
Display Visualizer

Enjoy club illumination-style visual effects that match set background colors.

Works with Spotify® NEW

- AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Spotify gives you instant access to millions of songs. With support for Spotify, you can control the Spotify app on your smartphone via your car receiver's touchscreen.

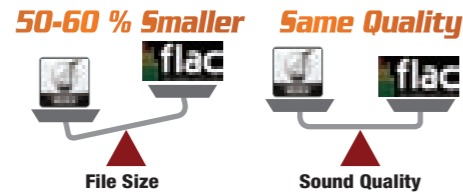


## AUDIO

### Support FLAC Codec\* NEW

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

New Pioneer AV receiver supports dramatically superior car audio experiences with amazingly brilliant reproduction of sound by FLAC (Free Lossless Audio Codec) files that are 50-60% smaller than WAV files, yet retain the integrity of original sound sources. Characterized by 48 kHz sampling frequency and 24-bit bitrate, the sound quality of FLAC file playback exceeds even that of CD playback.



\* For the files stored in USB thumb drive.



### High-Grade Audio Parts NEW

AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Pioneer's new audio capacitors for AV receivers clearly detail and localize sound characteristics and clean up extraneous noise, for more lasting listening pleasure.

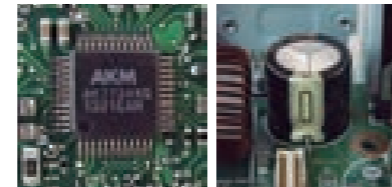
**Superior Sound Clarity, Precision & Detail!**

### Specialized Audio Parts



AVH-X8750BT

The AVH-X8750BT features specialized audio components such as a DSP and high-tolerance acoustic capacitors in order to reinforce Pioneer's dedication to high quality audio.

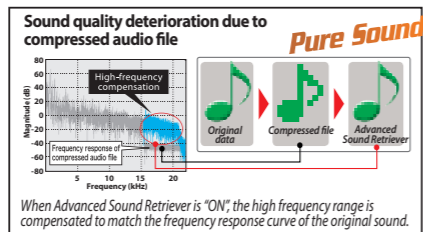


DSP Acoustic Capacitor

### Advanced Sound Retriever

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

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, SD/SDHC Memory Card, iPod/iPhone, Android phone and portable media players. Pioneer's Advanced Sound Retriever technology benefits audio reproduction performance by enhancing data (especially high-frequency data) that tends to get lost in the digital compression process.



**SR Air\***  
SR Air also improves the sound of Bluetooth® wireless audio streams.

\* Compatible with AVH-X8750BT, AVH-X5850BT, AVH-X2850BT and AVH-X7850BT.

### 13-Band Graphic EQ

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

With the unique Advanced Touch Slide Operation, you simply drag your finger across the screen to change the EQ curve and audio characteristics. 13-band EQ adjustment allows you to fine-tune sound quality just as you like it.



### Touch Slide Crossover Setting

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

It's intuitively easy to operate and set system tuning by dragging and tapping your finger.



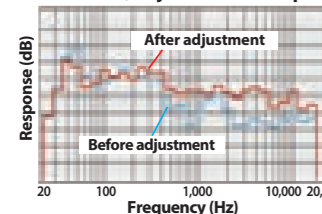
### Auto EQ\*



AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

It can be difficult to reproduce music accurately in a vehicle due to factory speaker locations and interior materials. These limitations can lead to sound phase distortion, as well as sound reflection against glass and absorption by the dashboard and seats. Auto EQ uses a microphone to monitor and analyze the vehicle acoustics, then automatically fine-tunes all frequencies and also applies digital parametric equalization to the front and rear speakers — producing a smoother sounding musical experience.

#### Auto EQ Adjustment Example



**After adjustment:**  
Smooth response with subtle nuances reproduced clearly.

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

#### CD-MC20

Microphone for Auto EQ and Auto Time Alignment Frequency Band Fine-Tuning

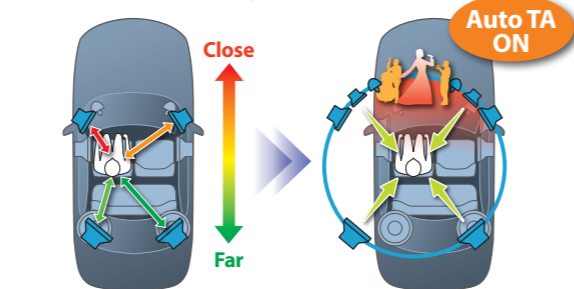


\* CD-MC20 required

### Auto Time Alignment\*

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Time Alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker output timing, so that sound from all speakers reaches the driver's ears in perfect sync.



The different distances from each speaker to the driver cause the delay of sound.

Auto TA makes all speakers sound as if they are virtually equidistant from the driver.

## USER INTERFACE & OTHERS

### Advanced User Interface

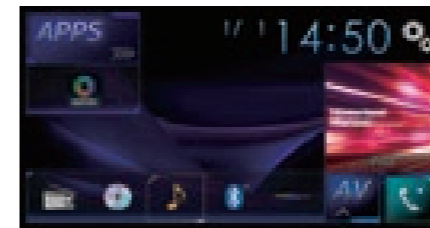
AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

More advanced than ever before, the Multimedia AV receiver features a responsive, powerful and intuitive touchscreen user interface that is easy to use and highly customizable.

#### Seamless Access

##### Home Menu Display

Just tap the icon on the Home Menu for quick access to the currently playing source, Bluetooth® or AppRadio Mode.



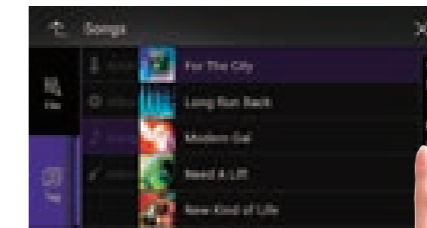
AVH-X5850BT Display

#### Quick and Easy Operation

##### Song List

AVH-X8750BT

Operation is intuitive, as with a smartphone, using such touch gestures as a flick to quickly scroll a list.

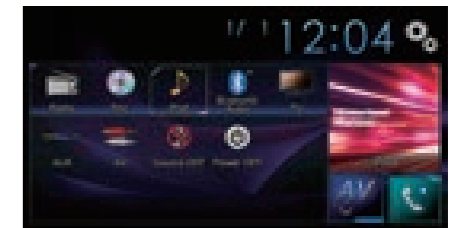


AVH-X8750BT Display

#### Advanced Customization

##### Source Menu Display

Simply drag and drop to change and customize Source Menu order.



AVH-X5850BT Display

### Color Customization

AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD



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



**Brilliant!**

### Detachable Face Security™



AVH-X8750BT AVH-X7850BT AVH-X6850DVD

The extra-thin face panel\* of the AVH-X8750BT is easy to remove and carry out of the car to deter theft.

\* Carrying case is included in the box.



### Pioneer TV Tuner Accessory



AVH-X8750BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

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



#### GEX-1550DTV RD

Digital TV Tuner  
• Compatible broadcasting system\*: ISDB-T

#### GEX-1550TV RC RI

Analog TV Tuner  
• Compatible broadcasting systems\*: PAL/SECAM/NTSC  
\*The ISDB-T digital and PAL/SECAM/NTSC analog TV broadcasting systems are not compatible with all regions.

### Clear Type Resistive Touch Panel NEW

All Receivers (Except AVH-3850DVD)

The new Pioneer AV receivers' display panel are designed as beautifully crisp and it brings you enhanced visibility.

### Power Off Mode NEW

AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Now you can turn off the AV receivers' screen separately in right order, not by compelling with turning off vehicles engine.

### Steering Wheel Control Function Expansion NEW

AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

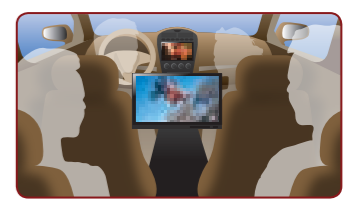
More usefulness are brought, you can receive call by pushing right or left button and use voice recognition function by long-pushing the mute button.

### Dual Zone Audio/Video



AVH-X8750BT

Pioneer's AVH-X8750BT allows rear seat passenger to enjoy audio or video content on additional rear seat monitors and headphones, even while the front passenger and driver listen to audio from other sources.



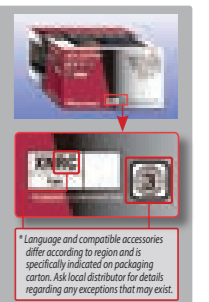
### Multi-Language Display



All Receivers

New Pioneer Multimedia AV receiver features Multi-Language Display of Menu and ID3 tag text.

<b>Asia</b> English/Thai/Chinese (Simplified)/Chinese (Traditional)/Bahasa Indonesia	RC*
<b>Central America/Latin America/Oceania</b> English/French**/Spanish/Portuguese/Chinese (Traditional)**	RD** AVH-X8750BT only
<b>Middle East Asia</b> English/French/Portuguese/German/Dutch/Russian/Arabic/Persian/Hebrew	RI*



\* Language and compatible accessories differ according to region and is specifically indicated on packaging carton. Ask local distributor for details regarding any exceptions that may exist.

Note: AVH-3850DVD — English/Spanish/Portuguese/Russian

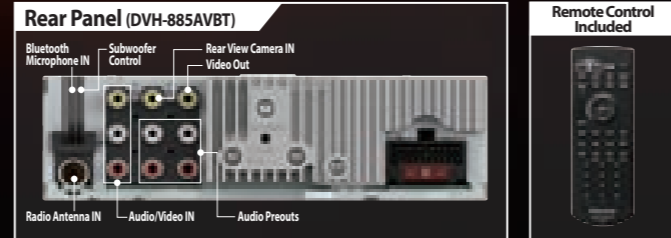
# DVH-885AVBT NEW

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



# DVH-785AV NEW

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



3.5W/3.0W\*1

Note: "Control for Android Phones with CarMediaPlayer App", "Bluetooth Wireless Technology", "iTunes AAC Playback", and "Hi-Volt Preout" for DVH-885AVBT  
\*1. 3.0-inch display: DVH-785AV

## Key Selling Points

Point 1

- Pioneer audio receivers are compatible with certain Android phones and iPod/iPhone\*. (DVH-885AVBT) \*Compatible only with music files from iPod/iPhone.
- Bluetooth Wireless Technology enables hands-free calling. Enjoy wireless audio control and streaming. (DVH-885AVBT)



Point 2

- Large built-in 3.5" (DVH-885AVBT) and 3" (DVH-785AV) 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.

### Common Main Features (Blue text: upgraded features from DVH-345UB)

- Multi-Language Display (Menu/ID3 Tag)
- USB Port (Front)
- Front AUX Input (Audio/Video)
- DVD/CD Player with DVD Video Playback
- MOSFET 50 W x 4
- 3-Band Equalizer (Bass/Mid/Treble)
- JPEG Slide Show
- Back-Up Camera Ready
- Rotary Volume Control
- Detachable Face Security™
- Wired Remote Input
- Display Off Mode

See page 89 for accessories.

#### DVH-885AVBT Main Features (Blue text: upgraded features from DVH-785AV)

- 3.5" Color TFT Display with LED Backlight
- Dual Color (Red/Blue)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (Bluetooth)
- Control for Android Phones with CarMediaPlayer App
- Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
- DivX\*/MPEG-1, -2, -4/MP3/WMA/iTunes\* AAC Playback from USB Device
- DivX\*/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Hi-Volt RCA Preouts x 2 (4 V)

#### DVH-785AV Main Features (Blue text: upgraded features from DVH-345UB)

- 3" Color TFT Display with LED Backlight
- DivX\*/MPEG-1, -2, -4/MP3/WMA Playback from USB Device
- DivX\*/MPEG-1, -2, -4/MP3/WMA Playback from CD/DVD
- RCA Preouts x 2 (2 V)

#### iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPod touch (3rd, 4th, and 5th generation)
iPod classic
iPod nano (4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

Point 1

### USB Direct Control\* for iPod/iPhone NEW

Gain freedom of car entertainment operation by connecting an iPod/iPhone to the DVH-885AVBT. The 3.5" TFT display of this 1-DIN DVD receiver can also be used as an iPod/iPhone interface more easily than that of a 1-DIN single CD player can be used.

\*Compatible only with music files from iPod/iPhone.



### Convenient, Easy Bluetooth® Wireless Functions

- Hands-free calling (HFP) for safe driving
- Wireless Audio Streaming/Control (A2DP)
- File Browsing can be used through AVRCP 1.4 version of Bluetooth. You can easily search songs in the browsing display.



### Control for Android Phones with CarMediaPlayer App

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

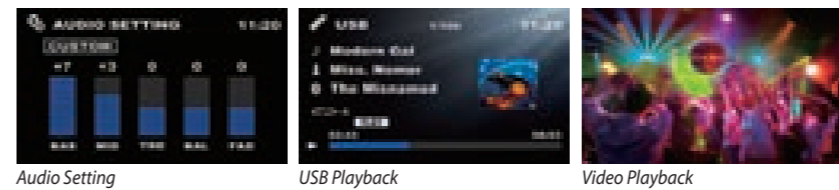


Point 2

### Large Full Color TFT Display

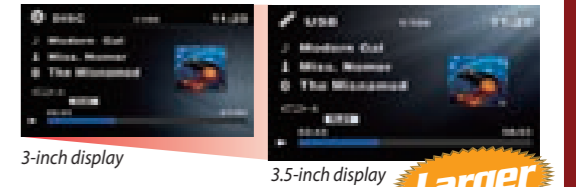
- The DVH-885AVBT and DVH-785AV include a built-in full color TFT display with excellent visibility and comfortable functionality operable with a range of information.
- Having a display built into the front panel makes it easy to enjoy video.

**3.5W/3.0W**



Audio Setting      USB Playback      Video Playback

#### 3.5" Large Display (DVH-885AVBT)



3-inch display      3.5-inch display

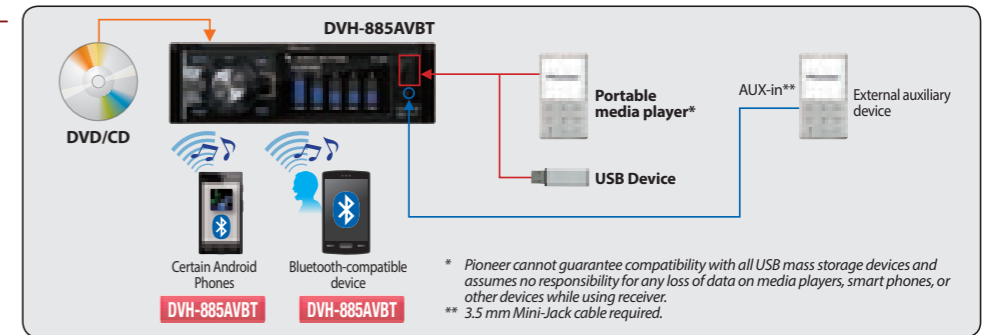


Point 3

### Versatile Multimedia Playback and Connectivity

The DVH-885AVBT is compatible with DivX and MP4 video file playback from DVD/CD and USB devices. Also, this receiver can play AAC audio files (encoded by iTunes\*) from DVD/CD and USB devices.

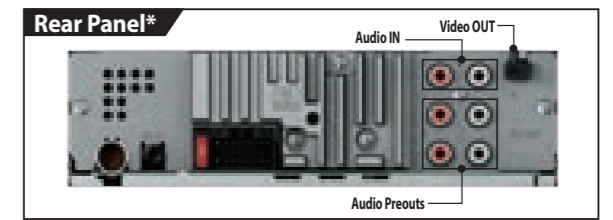
**AAC DIVX™**



\* 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.

## DVH-345UB

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



\*Rear panel configuration may vary depending on area.

### Main Features

- LCD Display with LED Backlight (10-Character)
- USB Port (Front)
- Front AUX Input (Audio)
- DVD/CD Player with DVD Video Playback
- DivX\*/MPEG-1, -2, -4/MP3/WMA/iTunes\* AAC/WAV Playback from USB Device
- DivX\*/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- 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

See page 89 for accessories.

# 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  
 AUX IN  
 RCA pre-outs  
 Hi-VOLT  
 Bluetooth® Adapter Ready  
 USB  
 Made for iPod iPhone  
 24bit DA Converter  
 DSP  
 Rotary Commander  
 AUTO FLAP  
 WIRED REMOTE INPUT  
 SUPER TUNER III  
 DETACHABLE FACE SECURITY

## 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 (Blue text: upgraded features from DEH-80PRS)

- 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)
- MP3/WMA/WAV/AAC Playback
- Advanced Sound Retriever
- Hi-Volt RCA Preouts x 4 (5 V)
- 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

### iPod/iPhone Compatibility

**CD-IU51**  
USB Interface Cable for iPod/iPhone (50 cm)

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

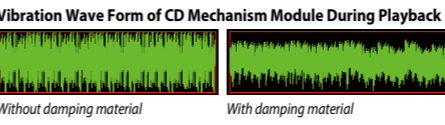
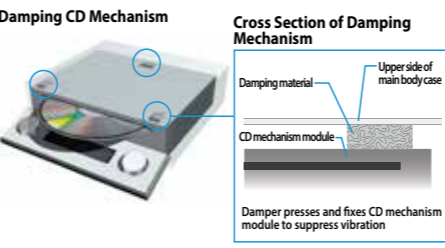
Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version.  
 See page 92 for more details.

\* 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.

### Point 1

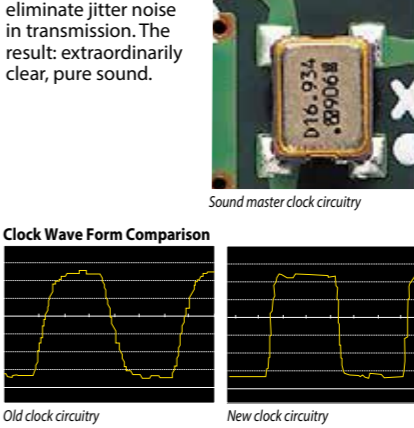
#### High-Performance Damping Material and Mechanism

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.



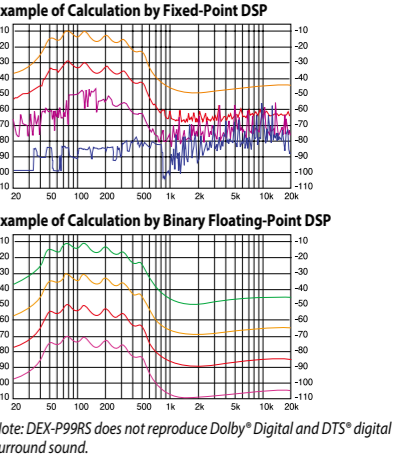
#### New High-Precision Sound Master Clock Circuitry

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.



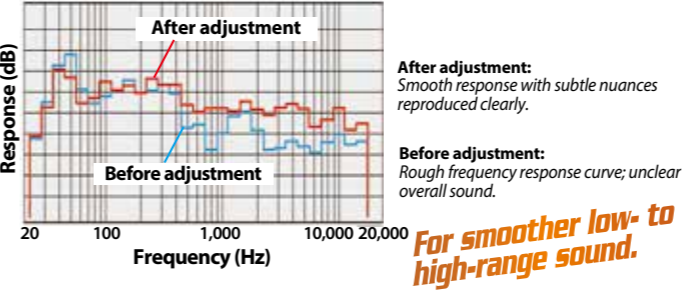
### Point 2

#### 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.

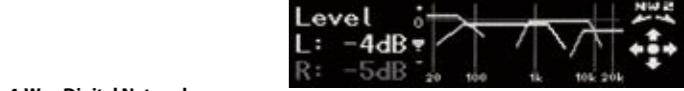


#### Auto EQ Adjustment Example



#### 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.



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	-6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	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	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	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	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	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	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+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	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+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	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+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.

USB  
 Made for iPod iPhone

# DEH-80PRS

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



**FULL DOT LCD** **Separated Color DISPLAY** **MULTI-LANGUAGE DISPLAY** **CD-R/RW** **MP3 WMA AAC** **24bit DA Converter** **AUX IN** **RCA PRE-OUTS** **Hi-VOLT** **Dual USB** **Made for iPod iPhone**  
**DSP** **FLAP FACE** **Anti-Dust Cover** **WIRED REMOTE INPUT** **RDS SUPER TUNER III D** **MOSFET 50Wx4** **RETRACTABLE PRE AMP** **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 (Blue text: upgraded features from DEH-9450UB)

- 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 RCA Preouts x 3 (5 V)
- 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 Compatibility

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 or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

**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.



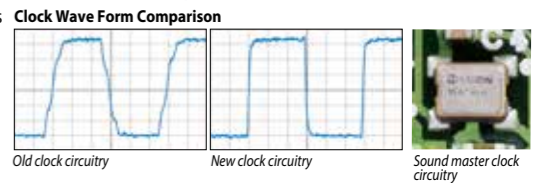
### Full-Custom High-Capacitance Power Supply Capacitor

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**

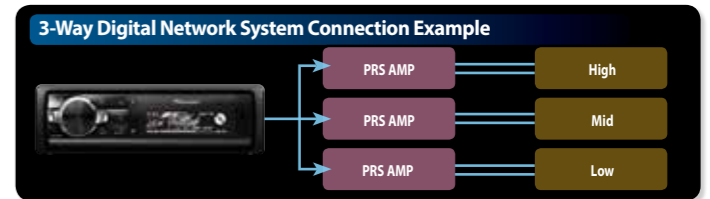
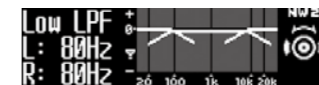
### 28-bit Binary Floating-Point DSP

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.



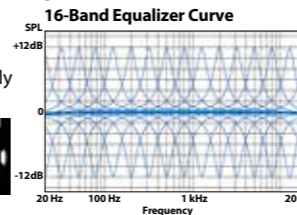
### 3-Way Digital Network Mode

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.



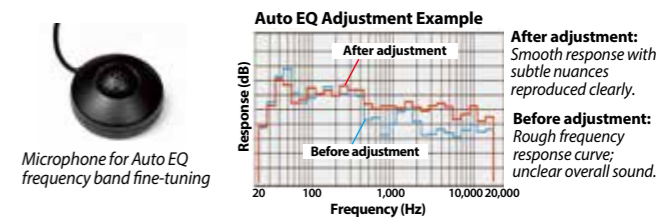
### Time Alignment

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

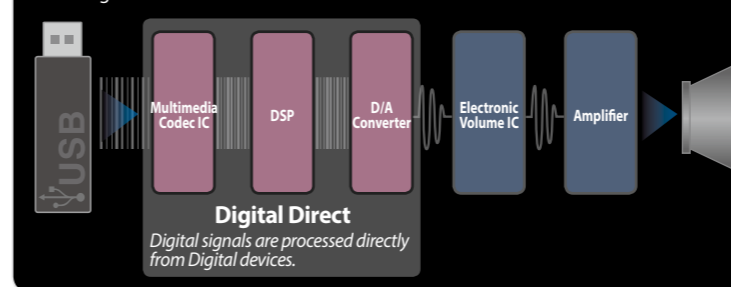
Time alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker sound output timing accordingly by 0.77 cm differences, so that sound from all speakers reaches the driver's ears in perfect sync. Auto EQ tailors specific musical characteristics according to 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.



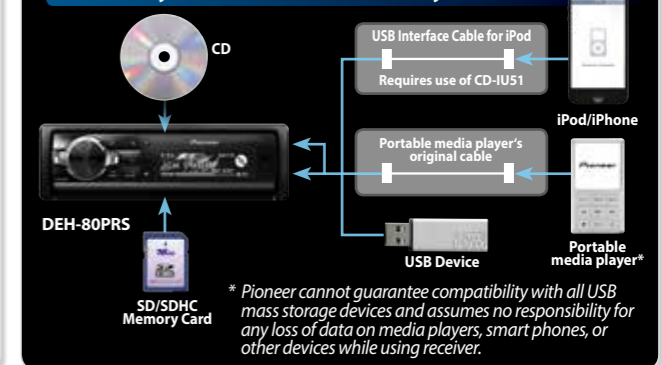
**Point 3**

### 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.

AUDIO

Built-in High-Power 100 W x 4-Channel Class-FD Amplifier **NEW**

DEH-X4850FD MVH-X285FD

Pioneer's new DEH-X4850FD and MVH-X285FD each have an unusually powerful built-in 100 W x 4-channel Class-FD amplifier driving stable output.



MIXTRAX

MIXTRAX EZ

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

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

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



Pioneer ARC\* **NEW**

DEH-X6850BT	DEH-X3850UI	DEH-X4850BT	DEH-X4850FD	DEH-X2850UI
DEH-X1850UB(G)	FH-X385UB	MVH-X385BT	MVH-X285FD	MVH-X185UI
DXT Series	MXT Series			

Original Pioneer ARC app lets you control and play various music sources and apps in your smartphone conveniently by operating Pioneer audio receiver or a smartphone.

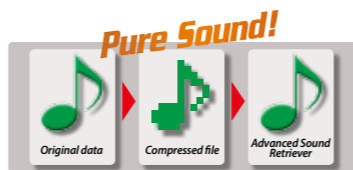


\* Use of this function requires Pioneer ARC app to be installed in the smartphone.

Advanced Sound Retriever

All Audio Receivers

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



CONNECTIVITY

Media App Control\*



For iPhone and iPod:

All Audio Receivers Compatible with iPod and iPhone (Except DEX-P99RS)



For Android Phone:

All Audio Receivers Compatible with Certain Android Phones (Except DEH-X9650SD, DEH-X7750UI and FH-X575UI)

This allows a passenger to use iPod and Android apps and play the accompanying audio from those applications through the car speakers. Media App Control can be booted up as a music source for extra-speedy access to iPod, iPhone and Android app control.

\* For Android Phone, DEH-X3850UI, DEH-X4850FD, DEH-X2850UI, DEH-X1850UB(G), FH-X385UB, MVH-X285FD, MVH-X185UI, DXT Series and MXT-X186UI are required to be used through Pioneer ARC app.

Note: App Mode for DEH-80PRS and DEH-9450UB.

USB Direct Control



For iPhone and iPod:

All Audio Receivers (Except DEH-X1850UB(G), DEH-155MP(G), FH-X385UB and DXT Series)

For Android Phone:

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

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



Two-Phone Full Time Connection

DEH-X8750BT DEH-X6850BT DEH-X4850BT MVH-X385BT MXT-X386BT

The receiver can receive calls from either of two mobile phones that are connected to it.



Built-in Bluetooth®



DEH-X9650BT	DEH-X8750BT	DEH-X6850BT	DEH-X4850BT
MVH-X385BT	MXT-X386BT		

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

ILLUMINATION

Separated Color Customization



DEH-80PRS	DEH-9450UB	DEH-X9650BT	DEH-X9650SD	DEH-X8750BT
DEH-X7750UI	DEH-X6850BT	DEH-X3850UI	FH-X575UI	

Lets user match a receiver to car cabin and dash.

Matches Any Car Illumination!



Brightness Setting

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

Set brightness to any of five or ten levels for excellent visibility under various viewing conditions during the day, at night, etc.

DEH-9450UB

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



Rear Panel



Key Selling Points

- Point 1 Page 43 Highly functional, high-quality face panel design features a smoothly motorized auto flap and clear front interface.
- Point 2 Page 41 Specialized audio parts carefully chosen for outstanding audio quality.
- Point 3 Page 41 Music Browser for faster, simpler song search and selection.



Main Features (Blue text: upgraded features from DEH-X9650BT)

- 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 50W x 4
- Supertuner® IIID
- RDS
- Hi-Volt RCA Preouts x 3 (4 V)
- 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

iPod/iPhone Compatibility

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 or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

## DEH-X9650BT

Audio Receiver with MIXTRAX, Built-in Bluetooth®, Dual USB Ports, Direct Control for iPod/iPhone and Certain Android Phones, and Flap Face



Rear Panel



## DEH-X8750BT

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



## DEH-X9650SD

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



Rear Panel



## DEH-X7750UI

Audio Receiver with MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



Note: "Bluetooth Wireless Technology", and "Siri Eyes Free" for DEH-X8750BT.

### Key Selling Points

- Point 1**  
**Page 43** **Finely detailed Full Dot 3-Line LCD display features flap face with sleek, elegant design.**
- Point 2**  
**Page 40** **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.**
- Point 3**  
**Page 42** **Smartphone compatibility lets you play music stored in an iPod, iPhone or Android phone through your car audio system.**
- Point 4**  
**Page 42** **Dual USB Ports with 1A high current handling capability enable connections to various digital devices.**

### Key Selling Points

- Point 1**  
**Page 43** **Finely detailed Full Dot 3-Line LCD large display features lever key.**
- Point 2**  
**Page 41** **Experience superior audio performance with Advanced Sound Retriever, 5-Band Graphic EQ, FLAC codec playback\* and more.**
- Point 3**  
**Page 41** **Music Browser for faster, simpler song search and selection.**

### Common Main Features (Blue text: upgraded features from DEH-X8750BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- SD/SDHC Memory Card Slot
- Media App Control for iPod/iPhone
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- 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
- RDS
- Hi-Volt RCA Preouts x 3 (4 V)
- 5-Band Graphic EQ
- Flap Face
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

### iPod/iPhone Compatibility

Made for
iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

### DEH-X9650BT Main Features (Blue text: upgraded features from DEH-X9650SD)

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Media App Control for Android
- Advanced Sound Retriever for Bluetooth Wireless Audio

### Common Main Features (Blue text: upgraded features from DEH-X6850BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Rear)
- Music Browser
- MP3/WMA/WAV/AAC/FLAC\* Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- RDS
- Hi-Volt RCA Preouts x 3 (4 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

### iPod/iPhone Compatibility

Made for
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

### DEH-X8750BT Main Features (Blue text: upgraded features from DEH-X7750UI)

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Media App Control for Android
- Advanced Sound Retriever for Bluetooth Wireless Audio



**DEH-X6850BT** NEW

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel

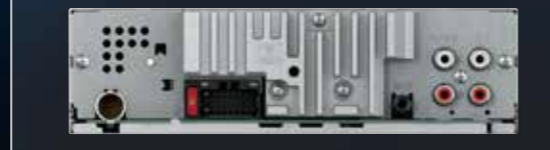


**DEH-X3850UI** NEW

Audio Receiver with MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



**DEH-X4850BT** NEW

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



**DEH-X2850UI** NEW

Audio Receiver with MIXTRAX, Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



**DEH-X1850UB/DEH-X1850UBG** NEW

Audio Receiver with MIXTRAX, and Direct Control for Certain Android Phones



Rear Panel



DEH-X1850UB

Note: Product design may differ according to region.

Notes: \*Bluetooth Wireless Technology, \*\*Siri Eyes Free, and \*\*\*AAC Playback for DEH-X6850BT. \*\*Shortwave Tuner for GS models only.

**Key Selling Points**

**Point 1** Page 42  
 Greatly improved connectivity to access various media.  
 • Wireless Audio Playback by Bluetooth (DEH-X6850BT)  
 • USB Direct Control for iPod/iPhone and for certain Android Phones via MTP and AOA 2.0

**Point 2** Pages 43 & 44  
 Enhanced visual features make interior space richer.  
 • Flexible adjustment with Color Customization, Brightness and Dimmer Setting  
 • Superior visibility and contrast on Large VA LCD display with 2-line text

**Point 3** Page 40  
 Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.  
 • Exciting nonstop mixed music experience by MIXTRAX  
 • Extra bass from Adjustable Bass Boost

**Common Main Features** (Blue text: upgraded features from DEH-X4850BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Wider VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android\*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- 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 (GS Model Only)\*\*
- RDS
- RCA Preouts x 2 (2V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

**iPod/iPhone Compatibility**

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

\*1. DEH-X1850UB(G): RCA Preout x 1. Notes: \*Bluetooth Wireless Technology, \*\*Siri Eyes Free, and \*\*\*AAC Playback for DEH-X4850BT. \*\*Direct Control for iPod/iPhone for DEH-X4850BT and DEH-X2850UI. \*\*Shortwave Tuner for GS models only.

**Key Selling Points**

**Point 1** Page 42  
 Greatly improved connectivity to access various media.  
 • Wireless Audio Playback by Bluetooth (DEH-X4850BT)  
 • USB Direct Control\* for iPod/iPhone and for certain Android Phones via MTP and AOA 2.0

**Point 2** Page 43  
 13-Digit, Wider VA LCD display provides superior visibility and contrast throughout a wide viewing angle range.

**Point 3** Page 40  
 Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.  
 • Exciting nonstop mixed music experience by MIXTRAX  
 • Extra bass from Adjustable Bass Boost

**Common Main Features**

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for Android\*
- Direct Control for Certain Android Phones (USB)
- 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 (GS Model Only)\*\*
- RDS
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

**DEH-X4850BT Main Features**

- (Blue text: upgraded features from DEH-X4850BT)
- Bluetooth for Hands-Free Calling & Wireless Audio
  - Siri Eyes Free
  - Media App Control for iPod/iPhone
  - Pioneer ARC (iPhone/Android)
  - Direct Control for iPod/iPhone (USB)
  - AAC Playback
  - Advanced Sound Retriever for Bluetooth Wireless Audio
  - RCA Preouts x 2 (2V)

**DEH-X2850UI Main Features**

- (Blue text: upgraded features from DEH-X1850UB(G))
- Media App Control for iPod/iPhone
  - Pioneer ARC (iPhone/Android)
  - Direct Control for iPod/iPhone (USB)
  - RCA Preouts x 2 (2V)

**DEH-X1850UB(G) Main Features**

- Pioneer ARC (Android)
- RCA Preout x 1 (2V)

**iPod/iPhone Compatibility**

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

\* DEH-X2850UI and DEH-X1850UB(G) are required to be used through Pioneer ARC app. \*\* See page 45 for more details about GS models.

# FH-X575UI

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



## Key Selling Points

**Point 1** Page 40 **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.**

**Point 2** Page 43 **Cool, sleek new panel is designed to incorporate VA LCD display and fit perfectly in a 2-DIN space in the dash.**

**Point 3** Page 44 **Allows flexible adjustment of illumination and color using Color Customization, Brightness Setting and Dimmer Setting.**

## Common Main Features (Blue text: upgraded features from FH-X385UB)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- 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
- Brightness Setting
- Illumination Timer
- Rotary Volume Control
- Card Remote Control

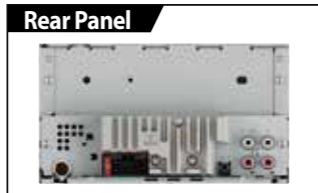
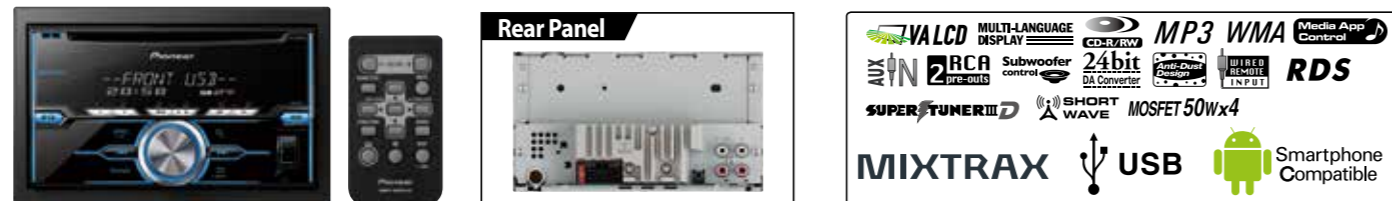
**iPod/iPhone Compatibility**

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

# FH-X385UB NEW

Double-DIN Audio Receiver with MIXTRAX, and Direct Control for Certain Android Phones



## Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Multi-Language Display
- Media App Control for Android\*
- Pioneer ARC (Android)
- Direct Control for Certain Android Phones (USB)
- 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
- Brightness Setting
- Illumination Timer
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

\* Required to be used through Pioneer ARC app.

# MVH-X385BT NEW

Digital Media Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



# MVH-X185UI NEW

Digital Media Receiver with MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Notes: "Bluetooth Wireless Technology", "Siri Eyes Free", "AAC Playback", and "Shortwave Tuner" for MVH-X385BT. "Shortwave Tuner" for GS models only.

## Key Selling Points

**Point 1** Page 42 **Greatly improved connectivity to access various media. Wireless Audio Playback by Bluetooth (MVH-X385BT) and USB Direct Control for iPod/iPhone and for certain Android Phones via MTP and AOA 2.0**

**Point 2** Page 43 **13-Digit, Wider VA LCD display provides superior visibility and contrast throughout a wide viewing angle range.**

**Point 3** Page 43 **Shallow chassis depth allows for more flexibility in installation.**

## Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android\*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- 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
- Brightness Setting
- Illumination Timer
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

## MVH-X385BT Main Features (Blue text: upgraded features from MVH-X285FD)

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Shortwave Tuner (GS Model Only)\*\*

\* MVH-X185UI is required to be used through Pioneer ARC app. \*\* See page 45 for more details about GS models.

## iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

# DEH-X4850FD NEW

Audio Receiver with MIXTRAX, Built-in 100 W x 4-ch. Class-FD Amplifier, and Direct Control for iPod/iPhone and Certain Android Phones



# MVH-X285FD NEW

Digital Media Receiver with MIXTRAX, Built-in 100 W x 4-ch. Class-FD Amplifier, and Direct Control for iPod/iPhone and Certain Android Phones



## Key Selling Points

- Point 1** Page 41 **Internal 100 W x 4-ch. amplifier with Class-FD configuration including special circuit board made for quality sound and component for stable output brings powerful sound reproduction and music playback.** Class FD
- Point 2** Page 43 **13-Digit, Wider VA LCD display provides superior visibility and contrast throughout a wide viewing angle range.**
- Point 3** Page 40 **Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.** MIXTRAX
  - Exciting nonstop mixed music experience by MIXTRAX
  - Extra bass from Adjustable Bass Boost

## Key Selling Points

- Point 1** Page 41 **Internal 100 W x 4-ch. amplifier with Class-FD configuration including special circuit board made for quality sound and component for stable output brings powerful sound reproduction and music playback.** Class FD
- Point 2** Page 43 **13-Digit, Wider VA LCD display provides superior visibility and contrast throughout a wide viewing angle range.**
- Point 3** Page 40 **Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.** MIXTRAX
  - Exciting nonstop mixed music experience by MIXTRAX
  - Extra bass from Adjustable Bass Boost

### Main Features (Blue text: upgraded features from DEH-X2850UI)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android\*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- **Class FD 100 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
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

\* Required to be used through Pioneer ARC app.

### iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

### Main Features (Blue text: upgraded features from MVH-X185UI)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android\*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- **Class FD 100 W x 4**
- Supertuner® III D
- Shortwave Tuner
- RDS
- **RCA Preouts x 2 (2 V)**
- 5-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

\* Required to be used through Pioneer ARC app.

### iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

### DXT-X1869UB NEW

Audio Receiver with MIXTRAX, Direct Control for Certain Android Phones, Front USB Port, and Speaker Package (6" x 9" & 16 cm Speakers)



### MXT-X386BT NEW

Digital Media Receiver with MIXTRAX, Built-in Bluetooth®, Direct Control for iPod/iPhone and Certain Android Phones, and Speaker Package (16 cm Speakers)



### DXT-X186UB NEW

Audio Receiver with MIXTRAX, Direct Control for Certain Android Phones, Front USB Port, and Speaker Package (16 cm Speakers)



### MXT-X186UI NEW

Digital Media Receiver with MIXTRAX, Direct Control for iPod/iPhone and Certain Android Phones, and Speaker Package (16 cm Speakers)



Note: "Shortwave Tuner" for GS models only.

#### Key Selling Points

**Point 1**  
Page 45 **Speaker package models make it easy to upgrade a car audio system.**

**Point 2**  
Page 43 **13-Digit, Wider VA LCD display provides superior visibility and contrast throughout a wide viewing angle range.**



**Point 3**  
Page 40 **Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.**  
 • Exciting nonstop mixed music experience by MIXTRAX  
 • Extra bass from Adjustable Bass Boost



#### Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for Android\*
- Pioneer ARC (Android)
- Direct Control for Certain Android Phones (USB)
- 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® IIID
- Shortwave Tuner (GS Model Only)\*\*
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

\* Required to be used through Pioneer ARC app.  
 \*\* See page 45 for more details about GS models.

#### Speaker Specifications

	DXT-X1869UB		DXT-X186UB
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

Notes: "Bluetooth Wireless Technology", "Siri Eyes Free", "AAC Playback", and "Shortwave Tuner" for MXT-X386BT. "Shortwave Tuner" for GS models only.

#### Key Selling Points

**Point 1**  
Page 45 **Speaker package models make it easy to upgrade a car audio system.**

**Point 2**  
Page 42 **Greatly improved connectivity to access various media.**  
 • Wireless Audio Playback by Bluetooth (MXT-X386BT)  
 • USB Direct Control for iPod/iPhone and for certain Android™ Phones via MTP and AOA 2.0



**Point 3**  
Page 43 **Shallow chassis depth allows for more flexibility in installation.**

#### Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android\*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- 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® IIID
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

#### MXT-X386BT Main Features

(Blue text: upgraded features from MXT-X186UI)

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Shortwave Tuner (GS Model Only)\*\*

\* MXT-X186UI is required to be used through Pioneer ARC app.  
 \*\* See page 45 for more details about GS models.

#### Speaker Specifications

	MXT-X386BT	MXT-X186UI
Size	16 cm	16 cm
Max. Music Power (Nominal)	200 W (25 W)	200 W (25 W)
Frequency Response	31 Hz to 16 kHz	31 Hz to 16 kHz
Sensitivity (1 W/1 m)	88 dB	88 dB
Impedance	4 Ω	4 Ω
Mounting Depth	41 mm	41 mm
Cut-Out Dimensions	ø128 mm	ø128 mm

#### iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 92 for more details.

AUDIO

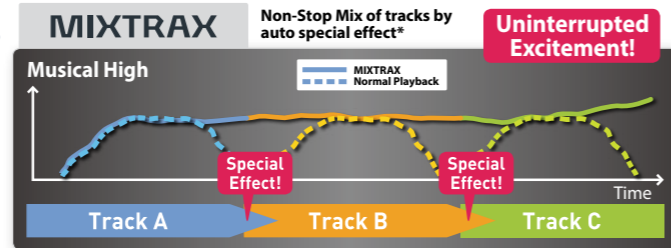
MIXTRAX

MIXTRAX

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

MIXTRAX Benefit

Pioneer applied its unique expertise to keep car entertainment flowing smoothly without interruption, so you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

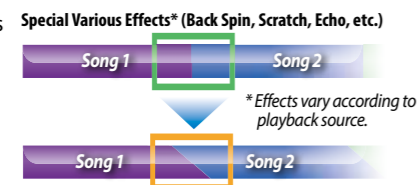


\* Depending on the file/song, sound effects may not be enabled for adding.

MIXTRAX EZ

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

MIXTRAX EZ makes Non-Stop MIX Play and other control quick and easy without using MIXTRAX software. Tracks are joined by various random sound effects in Non-Stop MIX Play to keep the mood moving in full swing.



Flashing Color\*

DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7750UI DEH-X6850BT DEH-X3850UI FH-X575UI

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

\* Can be switched on or off as desired.



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.

Table with columns for Sound Level Mode (Pattern 1-6) and Low Pass Mode (Pattern 1-6), listing color options for each.

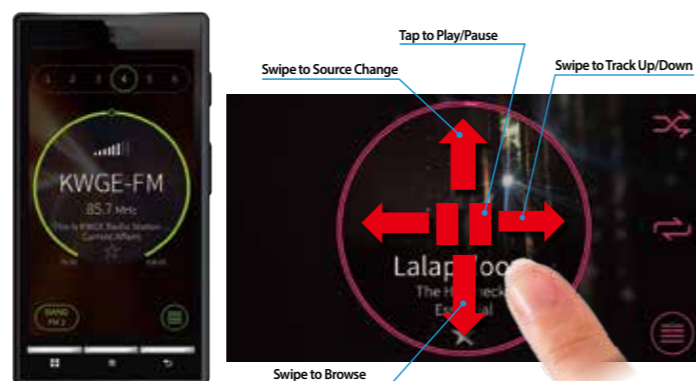
Pioneer ARC\*

DEH-X6850BT DEH-X3850UI DEH-X4850BT DEH-X4850FD DEH-X2850UI DEH-X1850UB(G) FH-X385UB MVH-X385BT MVH-X285FD MVH-X185UI DXT Series MXT Series

Original Pioneer ARC app lets you control and play various music sources and apps in your smartphone conveniently by operating Pioneer audio receiver or a smartphone (iPhone\*\*/iPod touch\*\*\*/Android device\*\*\*). Accordingly, you can see Text Information, operate File/Folder/Browse, Streaming App Playback, Music Browser functions and listen to Radio, etc.

\* Use of this function requires Pioneer ARC app to be installed in the smartphone. \*\* Compatible with iPhone and iPod touch installed with iOS 8.0 or later version, and with iPhone 5 or later model. \*\*\* Compatible with devices installed with Android OS 4.1 or later version, and which also support Bluetooth SPP (Serial Port Profile) and AOA (Android Open Accessory) 2.0.

Note: Read the product's operation manual as well as all instructions and cautions provided with the Pioneer ARC app and available content before use. Become familiar with any applicable laws in your country and region. Pay attention to the road, limit glancing at the device, and do not use any feature if it cannot be operated safely in your location and environment. Distracted driving may result in serious injury and even death.



AUDIO

Built-in High-Power 100 W x 4-Channel Class-FD Amplifier NEW

DEH-X4850FD MVH-X285FD

Enjoy more powerful sound than a conventional receiver with built-in amplifier can deliver. The new Pioneer DEH-X4850FD and MVH-X285FD each incorporate a 100 W x 4-channel Class-FD amplifier; require no outer amplifier box, for simple in-dash installation; and have circuitry exclusively designed to maintain exceptional audio quality.

Stable Power Output

For supremely stable output and sound quality, Pioneer's advanced amplifier technology built into these models controls input by monitoring current level output. The amplifier section is designed to prevent shutdown, ensuring consistent delivery of power regardless of the car battery's charge.

Dedicated Circuitry Designed to Dissipate Heat

For superior sound, exclusive circuitry is designed with heat-dissipating internal heatsink and cooling sheet between the printed circuit board and chassis.



Large Capacitor and Plate-Type Heatsink

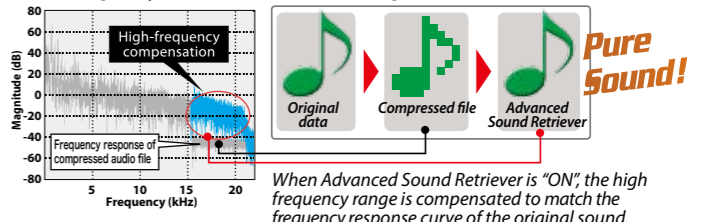
Advanced Sound Retriever

All Audio Receivers

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\*, Android\*\* phone 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.

\* Not compatible with DEH-X1850UB(G), DEH-155MP(G), FH-X385UB and DXT Series. \*\* Not compatible with DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G).

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.

Advanced Sound Retriever for Bluetooth\* Wireless Audio

DEH-X9650BT DEH-X8750BT DEH-X6850BT DEH-X4850BT MVH-X385BT MXT-X386BT

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

5-Band Graphic EQ

All Audio Receivers (Except DEX-P99RS and DEH-80PRS)

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.



Specialized Audio Parts

DEH-9450UB DEH-X9650BT DEH-X9650SD

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.



High-capacitance capacitor for audio (DEH-9450UB only)

Electronic volume control IC for Audio

Music Browser

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7750UI

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.

Comparison of conventional song search vs Music Browser, showing alphabetical search results and menu tree navigation.

## CONNECTIVITY

### Media App Control\*



For iPhone and iPod:  
 All Audio Receivers Compatible with iPod and iPhone (Except DEX-P99RS)

For Android Phone:  
 All Audio Receivers Compatible with Certain Android Phones (Except DEH-X9650SD, DEH-X7750UI and FH-X575UI)

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

\* For Android Phone, DEH-X3850UI, DEH-X4850FD, DEH-X2850UI, DEH-X1850UB(G), FH-X385UB, MVH-X285FD, MVH-X185UI, DXT Series and MXT-X186UI are required to be used through Pioneer ARC app.

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

App Mode for DEH-80PRS and DEH-9450UB.



### USB Direct Control



For iPhone and iPod:  
 All Audio Receivers (Except DEH-X1850UB(G), DEH-155MP(G), FH-X385UB and DXT Series)

For Android Phone:  
 All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

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



### Built-in Bluetooth®

DEH-X9650BT DEH-X8750BT DEH-X6850BT DEH-X4850BT MVH-X385BT MXT-X386BT

A Pioneer receiver with Built-in Bluetooth Wireless Technology 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 Wireless Audio

##### File Browsing (AVRCP Version 1.5)

DEH-X8750BT DEH-X6850BT DEH-X4850BT MVH-X385BT  
 MXT-X386BT

File Browsing can be used through AVRCP 1.5 version of Bluetooth. You can easily search songs in the browsing display.

Bluetooth Hands-Free Calling = HFP

Bluetooth Wireless Audio = A2DP, AVRCP

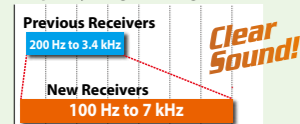
#### Bluetooth Hands-Free Calling

##### Wide Band Speech (HFP Version 1.6)

DEH-X8750BT DEH-X6850BT DEH-X4850BT  
 MVH-X385BT MXT-X386BT

Frequency bandwidth is twice as great as in the previous model, for much clearer phone call sound quality.

##### Frequency Range Coverage



#### Auto Pairing

All Audio Receivers Compatible with Bluetooth

Connecting an iPhone to the receiver with a USB cable automatically opens a prompt for pairing the unit and iPhone.

#### Bluetooth Wireless Audio



##### Bluetooth Wireless Audio Control (AVRCP)

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.

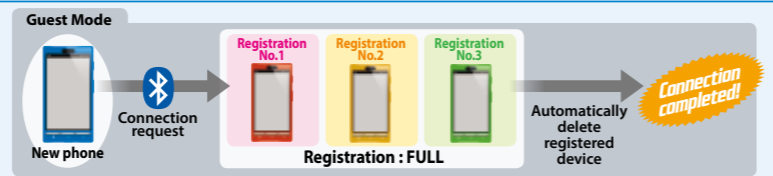
#### Bluetooth Hands-Free Calling

**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.

### Guest Mode

All Audio Receivers Compatible with Bluetooth

If a pairing is attempted while there are already three devices paired together, the receiver will proceed automatically to the deletion sequences and prompt you to delete a device.



### Siri\* Eyes Free Compatible



All Audio Receivers Compatible with Bluetooth

Smart voice control lets users access various iPhone functions to select music, make calls from a contact list, etc., without taking their eyes off the road.

\* Siri is available on iPhone 4s or later, iPad with Retina display, iPad mini, and iPod touch (5th generation) and requires Internet access. Siri may not be available in all languages or in all areas, and features may vary by area. Cellular data charges may apply. Some features may not be available for all countries or all areas.

### Two-Phone Full Time Connection

DEH-X8750BT DEH-X6850BT DEH-X4850BT MVH-X385BT MXT-X386BT

You can connect two mobile phones (for personal and business use, for example) with the receiver, and an incoming call from either phone can be received without requiring manual switching.



### Dual USB Ports

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD

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

### Illuminated USB Terminal

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7750UI and DEH-155MP(G))

Glowing USB terminal brightens the car interior and are easy to identify as needed at night.



## DISPLAY

### Full Dot 3-Line LCD Display



DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7750UI

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



DEH-X8750BT Display

### 1-Line 13-Character VA LCD Display

NEW

DEH-X4850BT DEH-X4850FD DEH-X2850UI DEH-X1850UB(G) MVH-X385BT MVH-X285FD MVH-X185UI DXT Series MXT Series

In addition to the VA LCD's high contrast and wide viewing angle, its display width has been expanded to accommodate up to 13 characters and allows more information to be more visible.



Large display size: 12.1 mm x 74.7 mm

Bluetooth profile A2DP HFP

Bluetooth® status icons displayed.

### VA LCD

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.

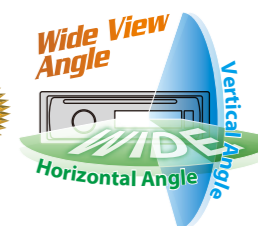
FH-X575UI



All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7750UI and DEH-155MP(G))

VA LCD Conventional LCD Image

High Contrast  
 60% better contrast



## DESIGN

### Auto Flap Face

DEX-P99RS DEH-9450UB

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



### Flap Face Design

DEH-80PRS DEH-X9650BT DEH-X9650SD

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



### Lever Key



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

#### Horizontal lever key

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD



#### 360-degree lever key

DEH-X8750BT DEH-X7750UI



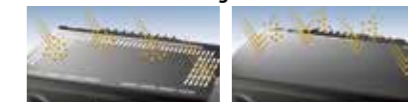
### Anti-Dust Design\*



All Audio Receivers (Except DEX-P99RS, MVH-X385BT, MVH-X285FD, MVH-X185UI, MXT-X386BT and MXT-X186UI)

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



Non-anti-dust design Anti-dust design

Higher Reliability

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

### Sophisticated Panel Designed for a Perfect Fit

Pioneer 2-DIN receivers feature VA LCD displays for superior visibility and high contrast, plus big rotary knobs for simple operation.

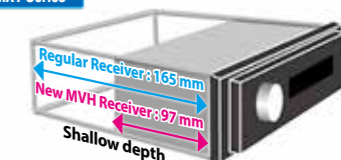
FH-X575UI FH-X385UB



### Compact Chassis Design

MVH-X385BT MVH-X185UI MXT Series

The shallow depth of the chassis of new MVH series receiver provides for optimal ease and flexibility of installation.



# ILLUMINATION

## Separated Color Customization

- DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7750UI DEH-X6850BT
- DEH-X3850UI FH-X575UI



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!

## Brightness Setting

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

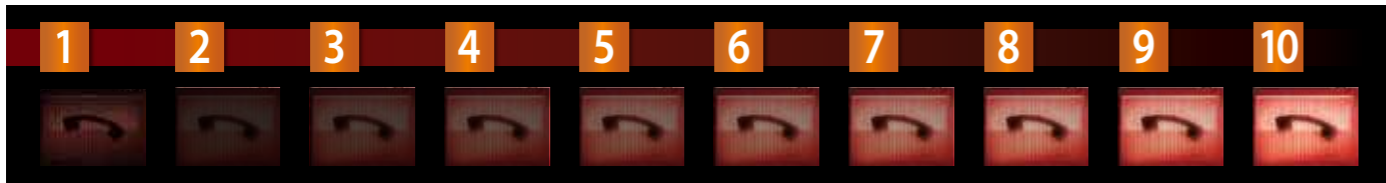
Brightness can be set to any of five or ten different levels to suit various viewing conditions, whether during the day, at night, etc. This allows for excellent visibility regardless of the situation.

### 5-Step Brightness Setting

- DEH-X9650BT DEH-X9650SD

### 10-Step Brightness Setting

All Audio Receivers Compatible with Brightness Setting (Except DEH-X9650BT and DEH-X9650SD)



Note: The range of settings can vary, depending on whether Dimmer is on or off.

## Illumination Effect

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

Illumination fades in and out at various times, such as when ACC power is turned on and off\*, a CD is being loaded or ejected, or an incoming call is being received on a Bluetooth® receiver.

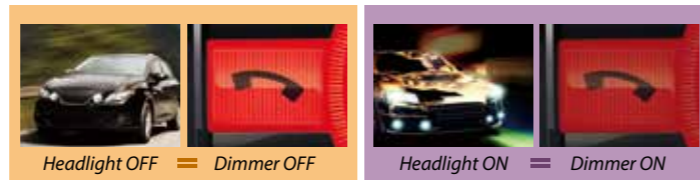
\* For the following receivers, Illumination Effect can be activated for only ACC power on/off. DEH-X4850BT/DEH-X4850FD/DEH-X2850UI/DEH-X1850UB(G)/MVH-X385BT/MVH-X285FD/MVH-X185UI/DXT Series/MXT Series



## Illumination Line

- DEH-X8750BT DEH-X7750UI DEH-X6850BT DEH-X3850UI FH-X575UI

Car's Headlight On/Off automatically links with Dimmer's On/Off. When driving, user doesn't need any extra operation to change Dimmer.

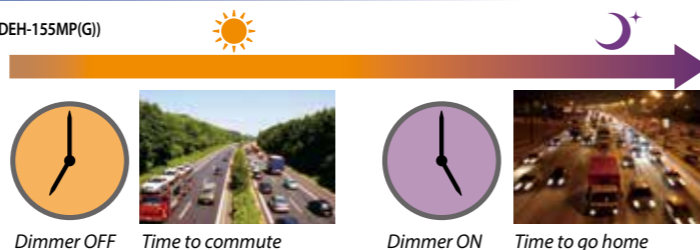


## Illumination Timer

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD and DEH-155MP(G))

You can set Dimmer On and Off\* to a particular time (to go home and to commute, respectively, for example) according to your lifestyle, so you do not need to manually activate or deactivate the dimmer repeatedly at the same regular time.

\* Times for Dimmer On and Off can be separately adjusted in 10-minute intervals and set.



# OTHERS

## USB Source Change Function NEW

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7750UI, DEH-155MP(G) and FH-X575UI)

When the audio receiver is connected to a media player, smartphone or other device via USB, you can choose to set the USB Source Change function ON or OFF.

**ON** The music source automatically changes to the connected source device.

**OFF** The music source being played on the receiver doesn't change, allowing the connected smartphone or portable media player to recharge while the music plays.

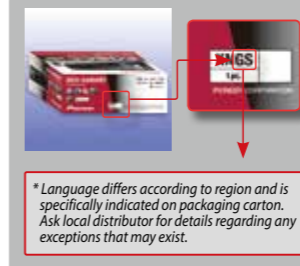


## Multi-Language Display

All Audio Receivers (Except DEH-155MP(G) and FH-X575UI)

Pioneer audio receivers feature Multi-Language Display.

- Asia/Middle East/Oceania**  
English/Spanish/Portuguese/Arabic/Persian **GS\***
- Central America/Latin America**  
English/Spanish/Portuguese **CS\***
- Asia/Middle East/Oceania/Central America/Latin America**  
English/Spanish/Portuguese **ES\***



\* Language differs according to region and is specifically indicated on packaging carton. Ask local distributor for details regarding any exceptions that may exist.

## Universal Steering Wheel Control\*

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD and DEH-155MP(G))

You can now use buttons on your car steering wheel to control certain car receiver functions. Setup is simple. Just choose your car brand name in the receiver's PRESET setting interface to automatically ensure compatibility of your vehicle's original steering wheel controller with the system.

\* Available in GS models only. Required cable is not included, and must be purchased separately. Please contact a nearby local Pioneer Service Center or branch for details.

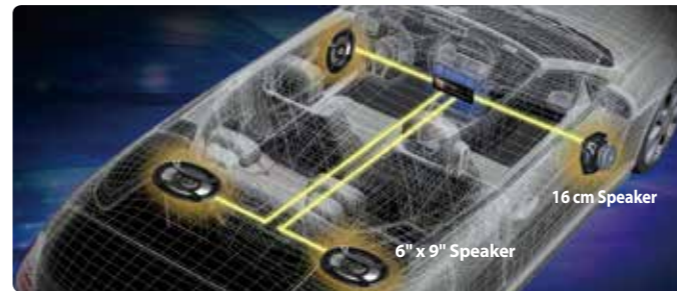


## Package System Configurations

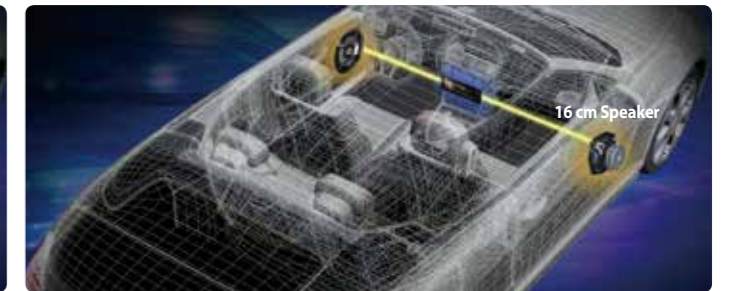
- DXT-X1869UB DXT-X186UB MXT-X386BT MXT-X186UI

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-X1869UB: Audio Receiver + 16 cm & 6" x 9" Speaker Package



### DXT-X186UB/MXT-X386BT/MXT-X186UI: Audio Receiver + 16 cm Speaker Package



## DEH-155MP/DEH-155MPG

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



DEH-155MP

DEH-155MPG



## 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® IID
- 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



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Pioneer on Amplifier Development — toward higher reliability and sound quality



● **High Reliability**

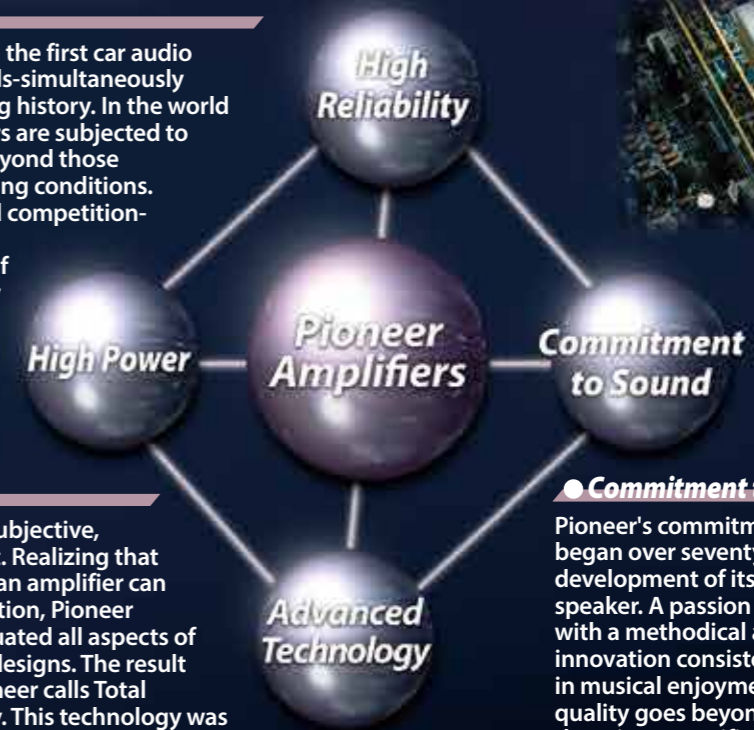
An amplifier's circuitry needs to be durable to handle the harsh automotive conditions it'll encounter such as heat, vibration, and voltage fluctuations. Pioneer systematically designs each of its car audio amplifiers for reliable, durable, and rugged performance. To counteract the effects of the vehicle's 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 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 and unlike any competitor.

● **Advanced Technology**

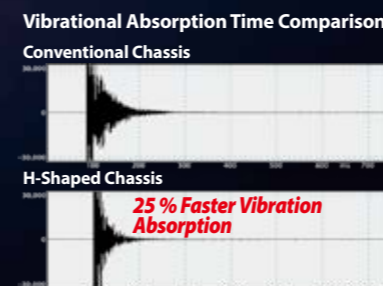
While musical taste may be subjective, accurate music response isn't. Realizing that component vibration within an amplifier can create audible musical distortion, Pioneer engineers methodically evaluated all aspects of amplifier circuit and chassis designs. The result was the creation of what Pioneer 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—regardless of the type of music.



● **Commitment to Sound**

Pioneer's commitment to sound quality began over seventy years ago with the development of its first home audio speaker. A passion for audio combined with a methodical approach to innovation consistently deliver the best in musical enjoyment. Truly great sound quality goes beyond measurement, as there is no specification that truly defines an awesome musical experience. Dedication to sound quality is at the heart of Pioneer's ongoing quest for musical perfection.

Total Vibration Control



PRS-A900

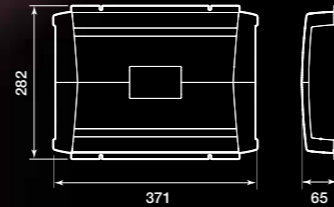




## PRS-A900 400 W MAX.

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

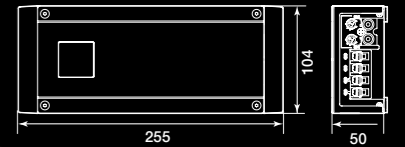
RCA INPUT



## PRS-D800 600 W MAX.

Class-FD 2-Channel Bridgeable Amplifier

Class FD RCA INPUT



### Key Selling Points

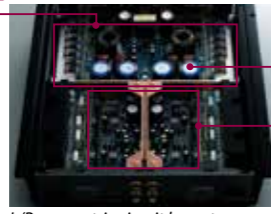
- Ultimate in distortion-free sound quality and elimination of influence of vibration and noise using a "H" form chassis along copper-plated power transistor mounts.
- Left and right channel independent power supplies direct electric current with superior stability and effectiveness.
- Strictly tested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

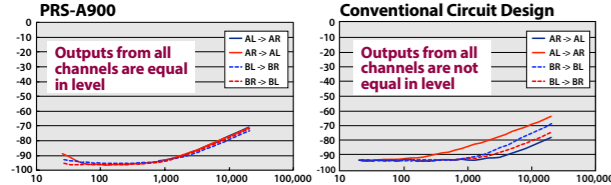
#### Left and Right Channel Independent Power Supply

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

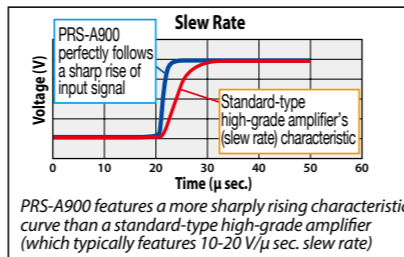


PRS-A900: Excellent separation among all channels

#### Superior Selection of Internal Components

#### Current Feedback-Type Amplifier Circuit

Distinctive characteristics of this circuit include: high slew rate of 70 V/μsec. 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.



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



### 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.

#### Class FD

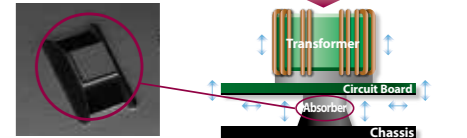
#### TVC (Total Vibration Control) Concept

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.



### 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%**

PRS-D800

### Specifications

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

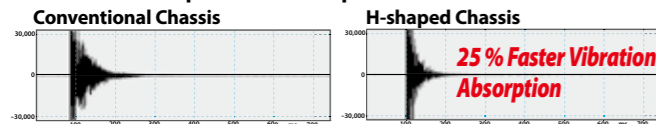
### The Ultimate in Distortion-Free Sound Quality

#### H-shaped Chassis

The conditions inside an automobile aren't always conducive to faithful audio reproduction. The natural vibrations of a vehicle as it cruises down the road can be transferred to the components inside an amplifier- causing audible distortion. Advanced resonance frequency testing on various back cover chassis designs led to Pioneer's development of the "H" form chassis, which stabilizes the amplifier and it's internal componentry by absorbing outer vibration with superior speed.



#### Vibrational Absorption Time Comparison



#### Copper-Plated Power Transistor Mounts

Eliminates influence of vibration and noise, and cuts even slight high-range sound distortion.



### Specifications

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

# GM-D9605 NEW 2,000 W MAX.

Class-FD\* 5-Channel Amplifier



\* For only A-Ch. and B-Ch.



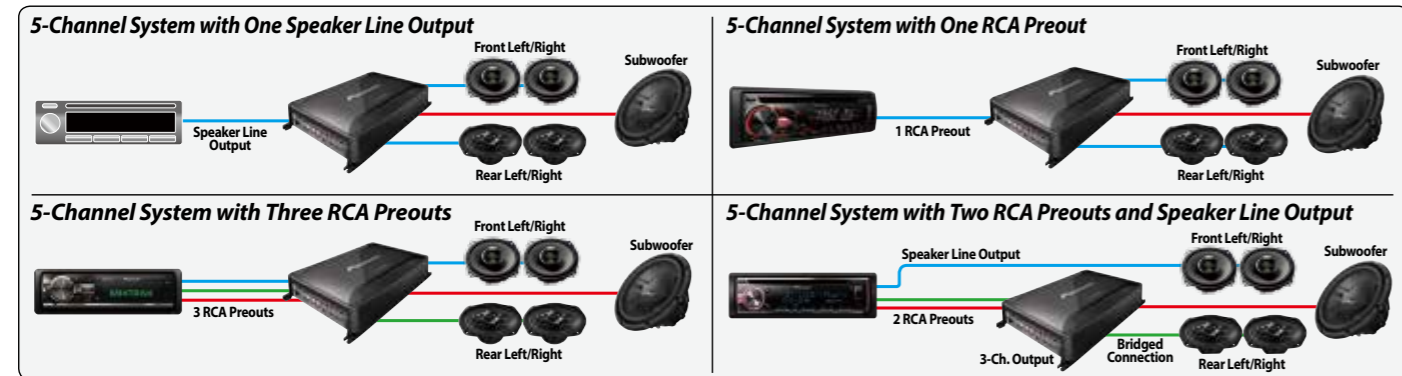
## Key Selling Points

- Various settings and connections expand your choice of system configuration.
- The versatile 5-channel capability of the GM-D9605 features dedicated subwoofer output for ample power to drive strong bass.
- Very efficient and compact, the Class-D amp is capable of amazingly high power output.

## Flexible Installation and Connectivity

A-Channel, B-Channel and Subwoofer-Channel outputs of the GM-D9605 can be matched to one, two or three preouts of a receiver. The GM-D9605 is also excellent for speaker line output connections and expanding a factory-equipped subwoofer-less car audio system into a 5-channel output system.

### System Connection Examples with GM-D9605 and Receiver

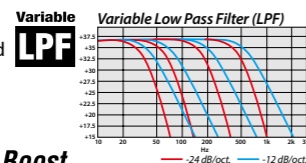


## 5-Channel Amplifier with Dedicated Output for Subwoofer

Unlike conventional 5-channel amplifiers, the Pioneer GM-D9605 has dedicated large block terminals to drive a subwoofer with plenty of power.



Variable low pass filter (LPF) has two types of slopes, selectable according to subwoofer characteristics and personal listening preferences.



GM-D9605 is equipped with A/B-SW input select.

Bass Boost Remote lets you adjust bass level from 0 to 18 dB by wired controller.



## Specifications

	GM-D9605
<b>Number of Channels</b>	5/4/3/2
<b>Max. Wattage (4 Ω)</b>	150 W x 4 (A-/B-Ch.)/700 W x 1 (Subwoofer-Ch.)
<b>Max. Wattage (2 Ω)</b>	200 W x 4 (A-/B-Ch.)/1,200 W x 1 (Subwoofer-Ch.)
<b>Max. Wattage Bridged (4 Ω)</b>	400 W x 2*
<b>Wattage RMS (4 Ω &lt;= 1% THD+N)</b>	75 W x 4 (A-/B-Ch.)/350 W x 1 (Subwoofer-Ch.)
<b>Wattage RMS (2 Ω &lt;= 1% THD+N)</b>	100 W x 4 (A-/B-Ch.)/600 W x 1 (Subwoofer-Ch.)
<b>Wattage RMS Bridged (4 Ω)</b>	200 W x 2*
<b>Frequency Response</b>	10 Hz to 50 kHz (A-/B-Ch.)/ 10 Hz to 500 Hz (Subwoofer-Ch.)
<b>Total Harmonic Distortion (1 kHz, 4 Ω)</b>	<0.05 % (A-/B-Ch.: 1 kHz/Subwoofer-Ch.: 100 Hz)
<b>Signal-to-Noise Ratio (IHF-A Weighted)</b>	>94 dB
<b>Dimensions (W x H x D)</b>	315 mm x 60 mm x 200 mm

\* Bridgeable for A-ch. and B-ch. only.

# GM-D9604 1,600 W MAX.

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



## 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.
- 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.

More Impact Made More Compact  
**Slimmed down 50%\***  
\* Measured by cubic volume.



### Dramatically Higher Power Output

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

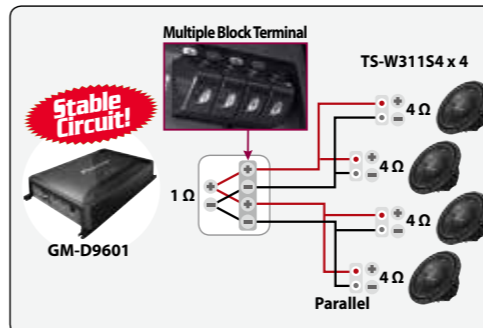
GM-D9500F: 800 W max. vs. GM-D8604: 1,200 W max.

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.

## 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.



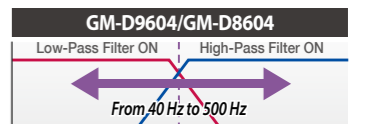
## Specifications

	GM-D9604	GM-D9601	GM-D8604	GM-D8601
<b>Number of Channels</b>	4/3/2	Mono	4/3/2	Mono
<b>Max. Wattage (4 Ω)</b>	260 W x 4	1,000 W x 1	200 W x 4	600 W x 1
<b>Max. Wattage (2 Ω)</b>	400 W x 4	1,600 W x 1	300 W x 4	1,000 W x 1
<b>Max. Wattage (1 Ω)</b>	260 W x 4	2,400 W x 1	250 W x 4	1,600 W x 1
<b>Max. Wattage Bridged (4 Ω)</b>	800 W x 2	—	600 W x 2	—
<b>Wattage RMS (4 Ω &lt;= 1% THD+N)</b>	130 W x 4	500 W x 1	100 W x 4	300 W x 1
<b>Wattage RMS (2 Ω &lt;= 1% THD+N)</b>	200 W x 4	800 W x 1	150 W x 4	500 W x 1
<b>Wattage RMS (1 Ω &lt;= 1% THD+N)</b>	130 W x 4	1,200 W x 1	125 W x 4	800 W x 1
<b>Wattage RMS Bridged (4 Ω)</b>	400 W x 2	—	300 W x 2	—
<b>Frequency Response</b>	10 Hz to 50 kHz	10 Hz to 240 Hz	10 Hz to 50 kHz	10 Hz to 240 Hz
<b>Total Harmonic Distortion (1 kHz, 4 Ω)</b>	<0.05 %	<0.5 % (100 Hz)	<0.05 %	<0.5 % (100 Hz)
<b>Signal-to-Noise Ratio (IHF-A Weighted)</b>	>95 dB	>100 dB	>95 dB	>100 dB
<b>Dimensions (W x H x D)</b>	315 mm x 60 mm x 200 mm	315 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm

## 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-D9604 / 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

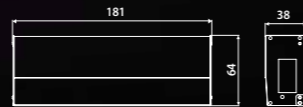
Pioneer's Class-D amplifier automatically selects an input signal mode between the RCA level and the speaker level detecting an input signal. Further, when the receiver is turned on, the amplifier will automatically turn on.

## GM-D1004

400 W MAX.

Class-FD 4-Channel Amplifier

Class FD LPF HPF RCA INPUT SPEAKER INPUT



## GM-A6604

760 W MAX.

4-Channel Bridgeable Amplifier with Bass Boost Volume Control

Variable LPF HPF RCA INPUT SPEAKER INPUT Bass Boost

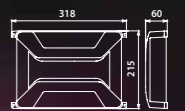


## GM-A4604

480 W MAX.

4-Channel Bridgeable Amplifier

Variable LPF HPF RCA INPUT SPEAKER INPUT

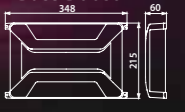


## GM-A5602

900 W MAX.

2-Channel Bridgeable Amplifier with Bass Boost Volume Control

Variable LPF RCA INPUT SPEAKER INPUT Bass Boost

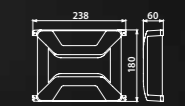


## GM-A3602

400 W MAX.

2-Channel Bridgeable Amplifier

LPF RCA INPUT SPEAKER INPUT

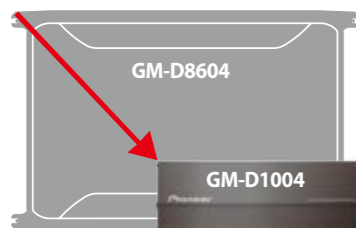


### Key Selling Points

- Compact design makes for easy installation behind the center console or inside the console box.
- Achieves higher power output despite compact dimensions.
- GM-D1004 incorporates various outstanding features including TVC (Total Vibration Control) Concept, Automatic Signal Sensing and Turn-ON, and others.

### Ultra Compact Design

Despite compact dimensions, high power 100 W x 4-ch. achieves maximum output to deliver clear, powerful sound even at loud volumes.



**86% Smaller\***  
\* Measured by cubic volume.

### Easy Installation

Electric power is supplied to the amplifier behind the center console or inside the console box, simplifying wiring and installation so you can upgrade sound quality from a system using a receiver's built-in amplifier.



**Upgraded**

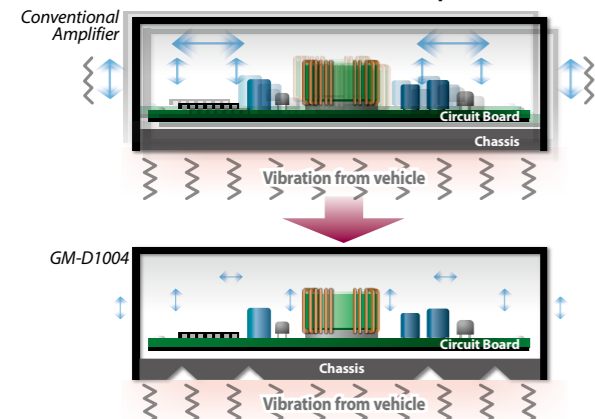
**Built-in Amplifier 50 W x 4 MAX. → 100 W x 4 MAX.**

### TVC (Total Vibration Control) Concept

Grooves on bottom of chassis suppresses vibration that normally blocks sound when high current is applied, enhancing power flow stability, minimizing distortion, and raising signal-to-noise ratio.



### TVC (Total Vibration Control) Conceptualization



### Automatic Signal Sensing and Turn-ON

When connected to an OEM receiver or a receiver without RCA input using speaker wire, the amplifier is turned on at the same time as the receiver. Pioneer's amplifiers automatically detect an input signal and select an input signal mode between the RCA level and the speaker level.

### Specifications

	GM-D1004
Number of Channels	4/3/2*
Max. Wattage (4 Ω)	100 W x 4
Max. Wattage (2 Ω)	100 W x 4
Max. Wattage Bridged (4 Ω)	200 W x 2*
Wattage RMS (4 Ω <= 1% THD+N)	45 W x 4
Wattage RMS (2 Ω <= 1% THD+N)	45 W x 4
Wattage RMS Bridged (4 Ω)	90 W x 2*
Frequency Response	10 Hz to 40 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %
Signal-to-Noise Ratio (IHF-A Weighted)	>90 dB
Dimensions (W x H x D)	181 mm x 38 mm x 64 mm

\* 3-/2-channel and bridged connection wattage specifications available for the UC model only. Refer to product box for regional availability.

### Key Selling Points

- Available variable low pass and high pass filters allow for greater system tuning flexibility. (Variable HPF: GM-A6604/GM-A4604, Variable LPF: GM-A6604/GM-A4604/GM-A5602)
- New GM-A series amps incorporate various outstanding features including Bass Boost, Automatic Signal Sensing and Turn-ON, and others.
- Achieves higher power output despite compact dimensions.

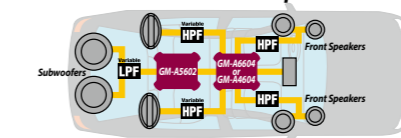
### Variable LPF/HPF

GM-A6604/GM-A4604 LPF HPF GM-A5602 LPF

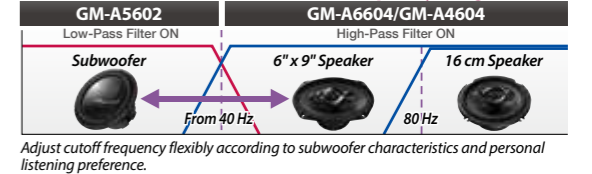
Variable LPF and HPF allow for adjustable frequency between 40 Hz to 500 Hz\* and greater car audio system flexibility according to subwoofer characteristics and personal listening preference.

\*GM-A6604/GM-A4604: Variable LPF/HPF (B-ch.), Fixed LPF/HPF (A-ch.), GM-A5602: Variable LPF

### Subwoofer dedicated to deeper bass sound



### Variable LPF/HPF Crossover Frequency Image



### Bass Boost

Bass Boost featured in the GM-A6604 can be set to levels variably between 0 to 12 dB for optimal bass. This precise control can enhance the overall balance and impact of all sounds, according to listening preference and music style. The GM-A5602 allows adjustment in three steps: 0 dB, 6 dB or 12 dB. **Bass Boost**

### Automatic Signal Sensing and Turn-ON

Pioneer's 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. When connected with an OEM receiver or receiver without RCA input using speaker line, the amplifier has its power turned on in sync with the receiver.

### Specifications

	GM-A6604	GM-A4604	GM-A5602	GM-A3602
Number of Channels	4/3/2	4/3/2	2/1	2/1
Max. Wattage (4 Ω)	120 W x 4	80 W x 4	300 W x 2	120 W x 2
Max. Wattage (2 Ω)	190 W x 4	120 W x 4	450 W x 2	200 W x 2
Max. Wattage Bridged (4 Ω)	360 W x 2	240 W x 2	900 W x 1	400 W x 1
Wattage RMS (4 Ω <= 1% THD+N)	60 W x 4	40 W x 4	150 W x 2	60 W x 2
Wattage RMS (2 Ω <= 1% THD+N)	90 W x 4	60 W x 4	225 W x 2	90 W x 2
Wattage RMS Bridged (4 Ω)	180 W x 2	120 W x 2	450 W x 1	180 W x 1
Frequency Response	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %	<0.05 %	<0.05 %	<0.05 %
Signal-to-Noise Ratio (IHF-A Weighted)	>95 dB	>94 dB	>96 dB	>95 dB
Dimensions (W x H x D)	348 mm x 60 mm x 215 mm	318 mm x 60 mm x 215 mm	348 mm x 60 mm x 215 mm	238 mm x 60 mm x 180 mm

GM-5500T: 820 W max. vs. GM-A5602 **900 W max.**

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**DELVE DEEPER**

Applying the kind of innovation that made its SPL subwoofers world championship winners, Pioneer makes all of its subwoofers superior at delivering massive punch for maximum impact. With stunning dimensions of low-frequency depth, Pioneer achieves the ultimate technical knockout.



*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's spirit and technology toward new horizons. Their reliability, power and capability to produce big, clear, distortion-free sound are simply incomparable in their class.



**Shallow Subwoofer**

Our line of shallow subwoofers are designed to provide wider installation options for a broad range of vehicles. These shallow-mount subwoofers feature unique design to deliver big bass performance like a full-size subwoofer, but in a compact design that can be installed either behind or under seats depending on the type of vehicle.



**ib-FLAT**

**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*



\* Models TS-W3003D4, TS-W311D4, TS-W311S4, TS-W261D4, TS-W261S4 and TS-W311. 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.



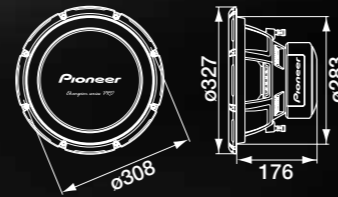
# TS-W3003D4

2,000 W MAX.



Champion series - PRO

30 cm (12") Champion Series PRO Subwoofer



## TS-W3003D4 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 IMPP Composite Seamless Cones meet this need perfectly.

### Drive Cone for Louder Sound

Fiber material blended in the drive cone improves sound response.

### Highly Rigid Shaped Basket

Four ribbed arms strengthen the basket stiffness while body basket shape has been slimmed down.

**More Rigid Basket!**

### Air Vent

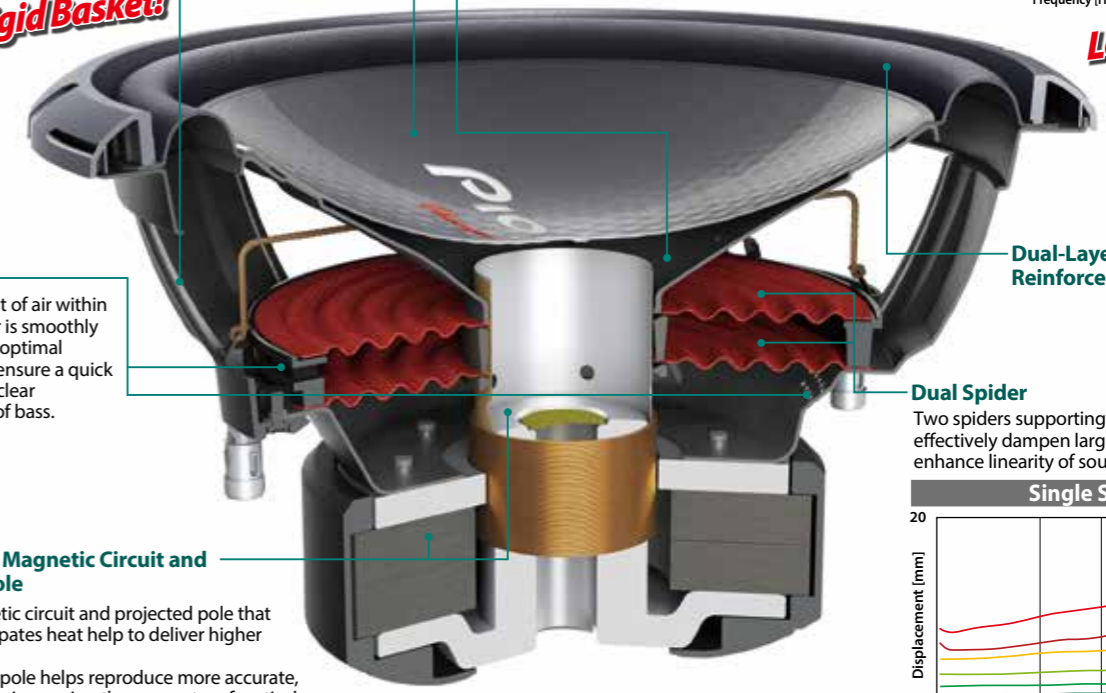
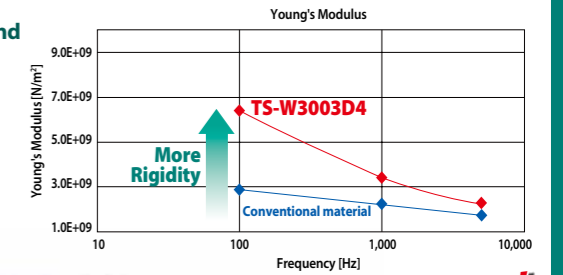
The movement of air within the subwoofer is smoothly channeled for optimal ventilation to ensure a quick response and clear reproduction of bass.

### Large-Sized Magnetic Circuit and Projected Pole

A large magnetic circuit and projected pole that brilliantly dissipates heat help to deliver higher power sound. The projected pole helps reproduce more accurate, linear sound by improving the symmetry of vertical magnetic flux distribution.



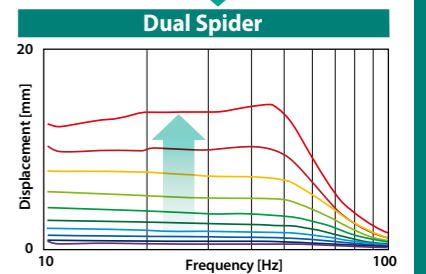
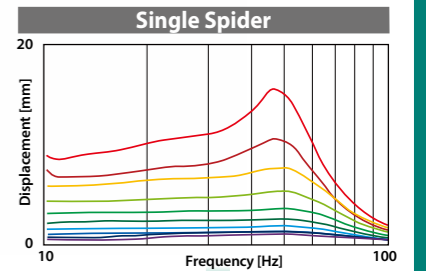
BI parameter is force factor.  
Higher force factor = Higher drive power



### Dual-Layer Surround Fiber Reinforced Elastic Polymer

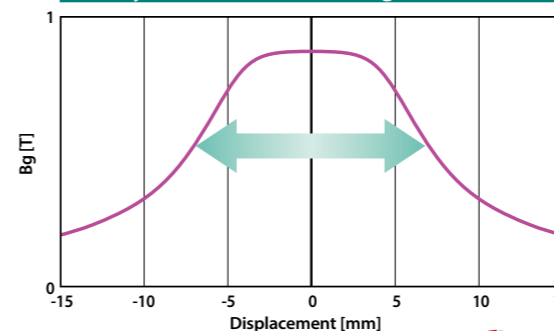
### Dual Spider

Two spiders supporting the voice coil effectively dampen large cone vibration and enhance linearity of sound reproduction.



**High Linearity!**

### Symmetrical Field of Magnetic Flux



**More Accurate Sound!**

## Specifications

	TS-W3003D4
Size	30 cm
Max. Music Power (Nominal)	2,000 W (600 W)
Frequency Response	20 Hz to 80 Hz
Sensitivity (In Car/1 W)	96 dB
Impedance	4 Ω x 2
Mounting Depth	176 mm
Cut-Out Dimensions	ø283 mm
Recommended Enclosure	24.1 liters to 49.5 liters

For more details, see page 97 (Thiele-Small parameters) and 98 (Enclosures).

## Key Selling Points

- The ultimate performance heritage of Pioneer's Championship-winning SPL subwoofers.
- High rigidity IMPP™ composite seamless cone reproduces rich, true bass.
- Extraordinary structure of dual spiders, a dual-layer surround, a 4-layer overhung voice coil and double stacked magnets for greater excursion and linearity even at extremely high power input.

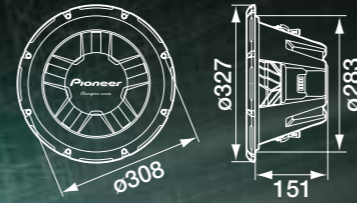
# TS-W311D4/S4

1,400 W MAX. 3D HOLOGRAM

30 cm (12") Champion Series Subwoofers  
(TS-W311D4: 4 Ω Dual Voice Coil Type/TS-W311S4: 4 Ω Single Voice Coil Type)



## Champion series



# TS-W261D4/S4

1,200 W MAX. 3D HOLOGRAM

25 cm (10") Champion Series Subwoofers  
(TS-W261D4: 4 Ω Dual Voice Coil Type/TS-W261S4: 4 Ω Single Voice Coil Type)



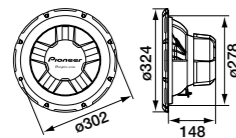
### Key Selling Points

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

# TS-W311

1,000 W MAX. 3D HOLOGRAM

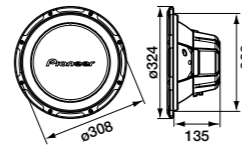
30 cm (12") Champion Series Subwoofer  
(Multi-Purpose Type)



# TS-W304R

1,300 W MAX.

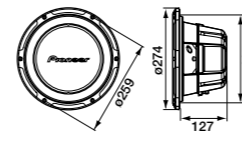
30 cm (12") Component Subwoofer



# TS-W254R

1,100 W MAX.

25 cm (10") Component Subwoofer



### TS-W311D4 Cut View

#### IMPP Composite Cone

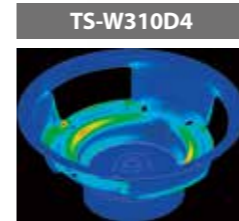
An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's IMPP Composite Cones meet this need perfectly. CAE (computer-aided engineering) has been applied to create a surface spoke design that ensures high durability and rigidity of the cone.

#### Air Vent

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

#### Fully Enclosed Basket

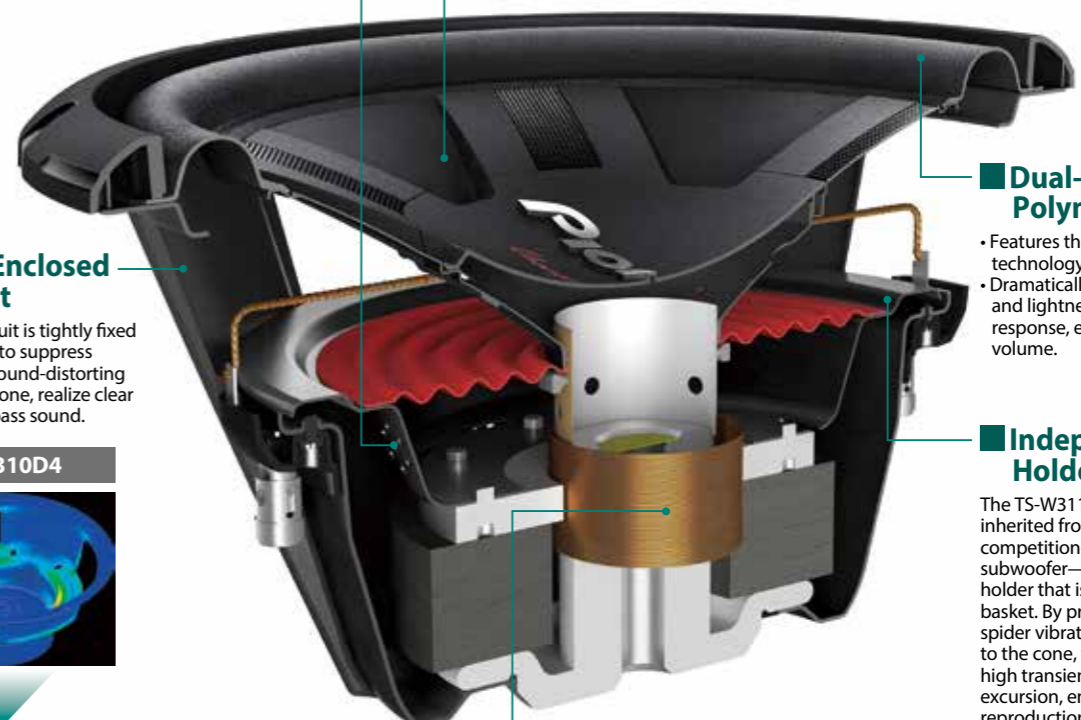
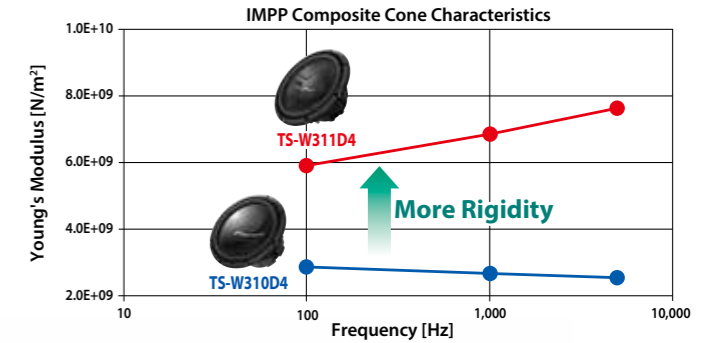
Magnetic circuit is tightly fixed to the basket to suppress undesirable sound-distorting recoil to the cone, realize clear and punchy bass sound.



Clear Bass!

#### 4-Layer Copper Voice Coil with Aluminum Former

Aluminum former improves heat dissipation.

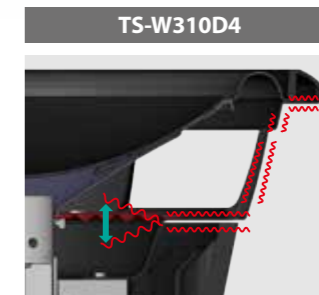


#### Dual-Layer Elastic Polymer Surround

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

#### Independent Spider Holder

The TS-W311D4 has a feature inherited from Pioneer's competition-dominating SPL subwoofer—an independent spider holder that is separate from the basket. By preventing propagation of spider vibration through the basket to the cone, this structure improves high transient and linearity of excursion, enhances clarity of sound reproduction.



### Specifications

	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311	TS-W304R	TS-W254R
Size	30 cm	30 cm	25 cm	25 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)	1,000 W (300 W)	1,300 W (300 W)	1,100 W (250 W)
Frequency Response	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 220 Hz	20 Hz to 220 Hz
Sensitivity (In Car/1 W)	95 dB	95 dB	93 dB	93 dB	95 dB	95 dB	93 dB
Impedance	4 Ω x 2	4 Ω	4 Ω x 2	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	151 mm	151 mm	139 mm	139 mm	148 mm	135 mm	127 mm
Cut-Out Dimensions	ø283 mm	ø283 mm	ø235 mm	ø235 mm	ø278 mm	ø283 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	18.4 liters to 35.4 liters

For more details, see page 97 (Thiele-Small parameters) and 98 (Enclosures).

# TS-SW3002S4 1,500 W MAX.

30 cm (12") Shallow-Mount Component Subwoofer

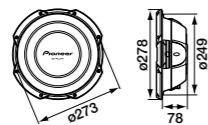


## Key Selling Points

- Oversized cone structure provides greater surface area to reproduce high SPL with no increase in basket size.
- Mica-reinforced IMPP™ cone reproduces powerful bass.
- Unique shallow structure of dual spiders, a dual-layer surround and a 4-layer overhung voice coil provides wide excursion and linearity even at high power input.
- OEM-FIT™ enables drop-in OEM audio system replacement or upgrading. (TS-SW2002D2).

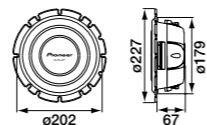
### TS-SW2502S4 1,200 W MAX.

25 cm (10") Shallow-Mount Component Subwoofer



### TS-SW2002D2 600 W MAX.

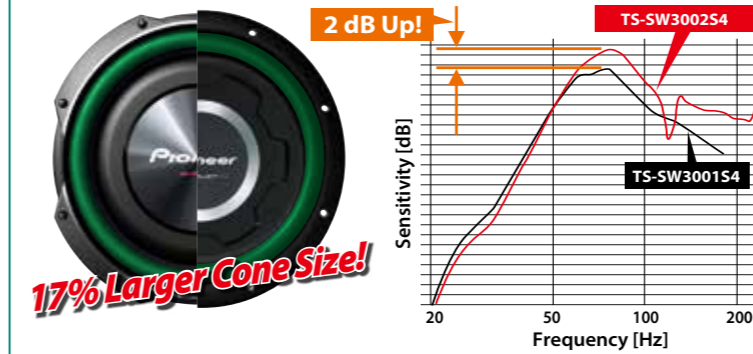
20 cm (8") Shallow-Mount Component Subwoofer



## TS-SW3002S4 Cut View

### ■ Oversized Cone

The TS-SW3002S4 utilizes an oversized cone structure that provides greater cone surface without changing its standard external dimension. This cone surface allows the subwoofer to produce louder and deeper bass by moving more air.



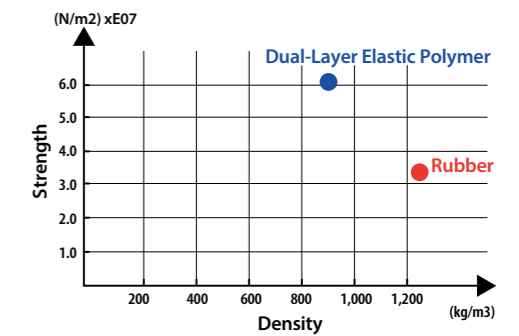
### ■ Mica Reinforced IMPP Cone

The cone structure of this subwoofer uses a highly rigid cone made with MICA injected molded resin which creates a rigid and durable cone, giving it the ability to produce accurate bass.

**More Punchy Bass!**

### ■ Dual-Layer Elastic Polymer Surround

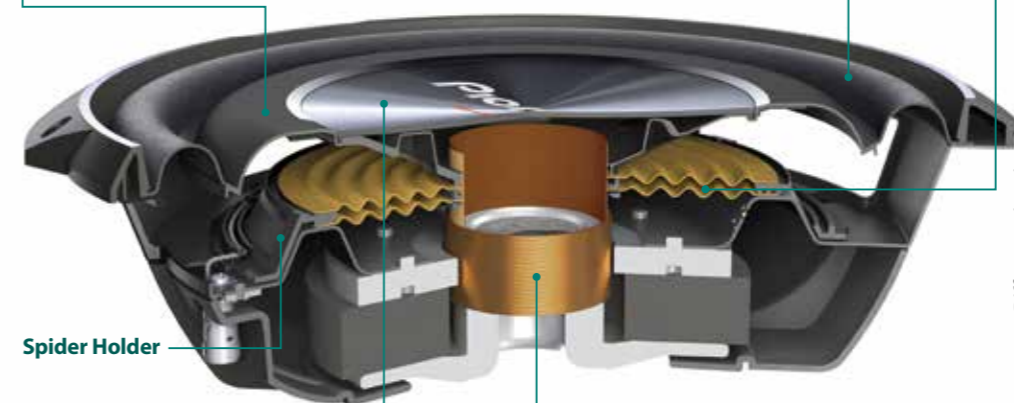
Dramatically improves durability and lightness, for superior response, especially for louder volume.



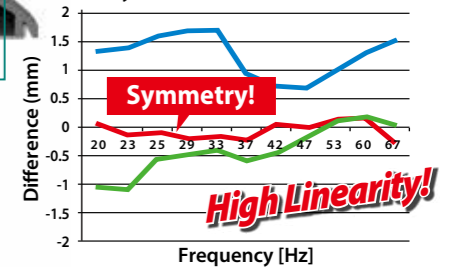
**High Durability despite Lightweight!**

### ■ Dual Spider

Two spiders supporting the voice coil effectively dampen large cone vibration and enhance linearity of sound reproduction.



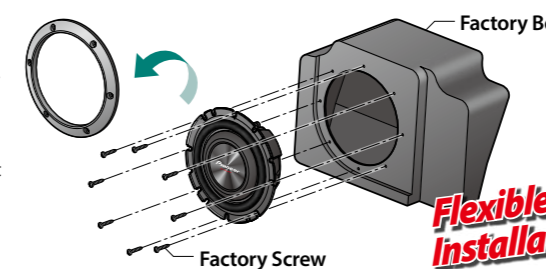
#### Symmetric Excursion Control



**High Linearity!**

## Ultimate Installation Flexibility — TS-SW2002D2

Removal of the detachable gasket from the TS-SW2002D2 uncovers several screw holes that allow for flexible installation in various types of vehicles. The subwoofer's mounting depth has been carefully determined according to survey of vehicle parameters, resulting in development of a shallow type subwoofer that fits right into the factory box.



**Flexible Installation!**

**Dual Voice Coil**  
TS-SW2002D2 is designed with 2 Ω DVC (Dual Voice Coil) that can be matched with various impedance OEM subwoofers and allows users to select 1 Ω or 4 Ω wiring.

**1 Ω or 4 Ω**

## Specifications

	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Size	30 cm	25 cm	20 cm
Max. Music Power (Nominal)	1,500 W (400 W)	1,200 W (300 W)	600 W (150 W)
Frequency Response	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 200 Hz
Sensitivity (In Car/1 W)	93 dB	91 dB	86 dB
Impedance	4 Ω	4 Ω	2 Ω x 2
Mounting Depth	86 mm	78 mm	67 mm
Cut-Out Dimensions	ø298 mm	ø249 mm	ø179 mm
Recommended Enclosure	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters	4.2 liters to 14.2 liters

For more details, see page 97 (Thiele-Small parameters) and 98 (Enclosures).

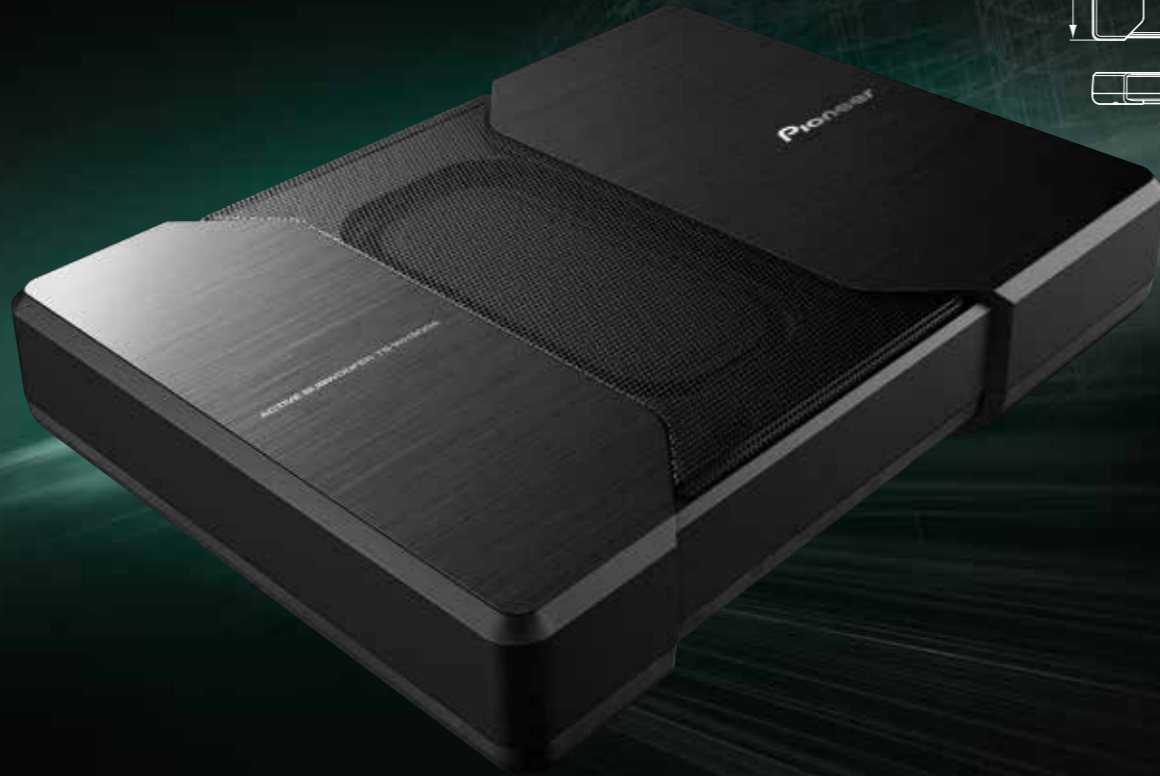
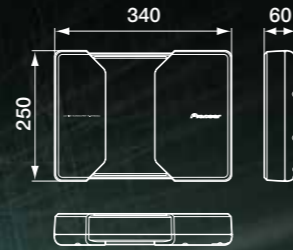
# TS-WH500A

150 W MAX.†

HVT™

18 cm x 10 cm x 2 HVT Sealed Active Subwoofer  
Dimensions (W x H x D): 340 mm x 60 mm x 250 mm

† Output power

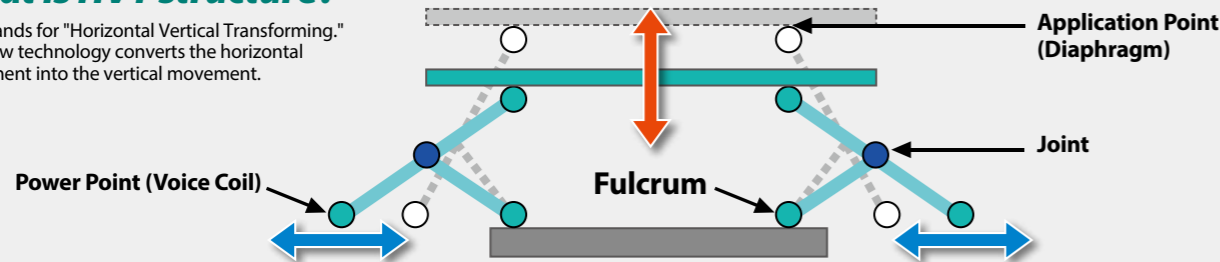


## Key Selling Points

- The world's first, patented HVT (Horizontal Vertical Transforming) technology from Pioneer enables a micro-height subwoofer system to produce bass output and sound of quality equal to that of conventional subwoofer systems.
- Dual symmetric diaphragms positioned vertically in a bi-polar configuration increase output and minimize internal loss.
- Height of just 60 mm provides ultimate flexibility of installation (including relatively hard-to-fit installation under seats) for various types of vehicles.

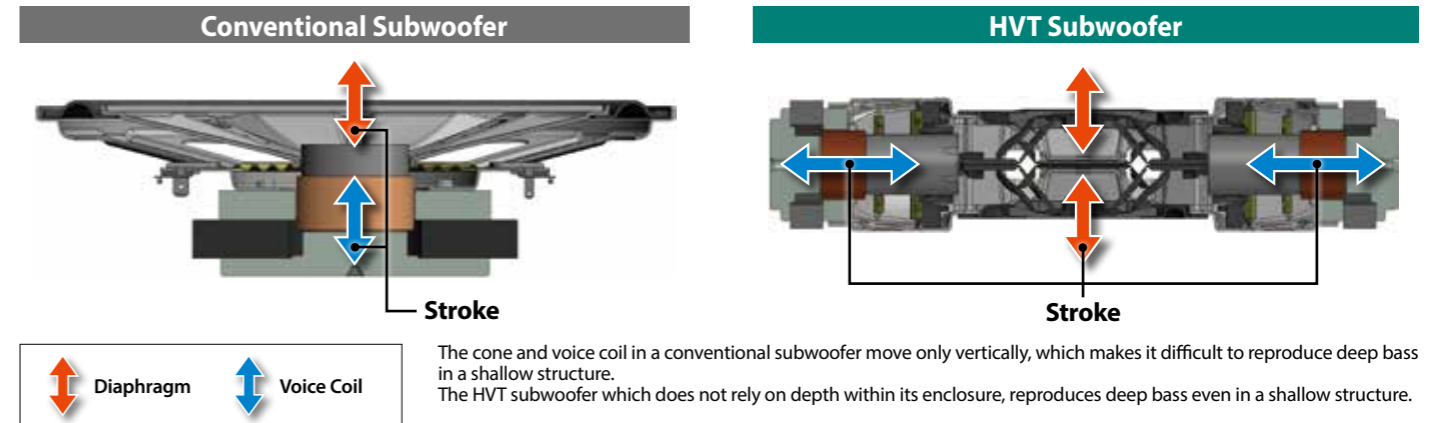
### What is HVT structure?

HVT stands for "Horizontal Vertical Transforming." This new technology converts the horizontal movement into the vertical movement.

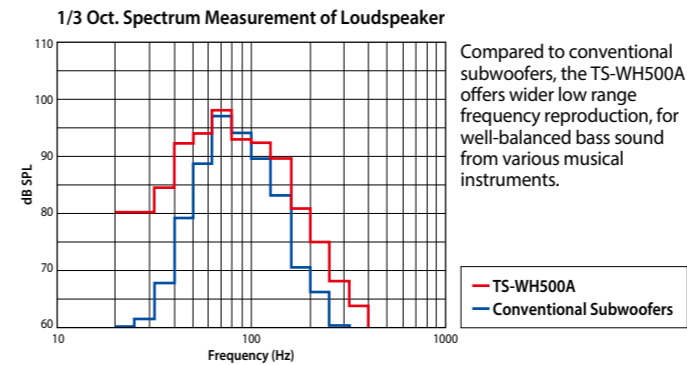


## HVT Structure (TS-WH500A) Cut View & Technology

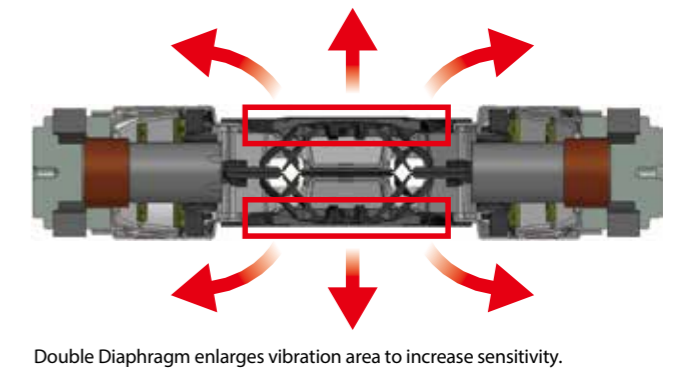
### Wide-range Bass Sound



### Comparison Diagram between Conventional Subwoofers vs TS-WH500A



### Sound Direction Image



## Clear Sound & Less Noise

**Conventional Subwoofer**

**Vibration of Bottom Cabinet**  
Forces of action and reaction forces make the chassis vibrate and generate noise.

**HVT Subwoofer**

**Less Vibration & Less Noise**  
The TS-WH500A voice coil and diaphragm work in symmetry to cancel unnecessary vibrations and reduce noise which instead would travel through the vehicle's body.

**Comparison of Vibration Level at the Bottom Cabinet**

Unnecessary vibrations are drastically decreased.

### Easy & Flexible Installation

The TS-WH500A will fit easily in a wide range of vehicle applications (compact and subcompact vehicles, hybrid vehicles, trucks and SUVs, etc.) without sacrificing performance or sound quality.



### Specifications

	TS-WH500A
Size	18 cm x 10 cm x 2
Max. Music Power (Nominal)	150 W* (50 W**)
Frequency Response	20 Hz to 200 Hz
Sensitivity (In Car/1 W)	98 dB
Impedance	4 Ω

\* Maximum output power \*\* Nominal output power



**TS-WX305T** 1,300 W MAX.

30 cm (12") Bass-Reflex Tube Type Subwoofer  
 • Dimensions (W x H x D): ø344 mm x 669 mm



**TS-WX305B** 1,300 W MAX.

30 cm (12") Bass-Reflex Subwoofer  
 • Dimensions (W x H x D): 500 mm x 379 mm x 280 mm



**Key Selling Points**

- High power and loud sound are achieved by incorporating a long voice coil and large magnetic circuit. (TS-WX305T/TS-WX305B)
- Instantly installable — there's no need to make an enclosure for the subwoofer.

**TS-WX120A** 150 W MAX.†

20 cm x 13 cm Sealed Active Subwoofer  
 • Dimensions (W x H x D): 280 mm x 70 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



**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-WX305T and TS-WX305B**

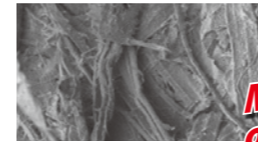
**IMPP Composite Seamless Cone**

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

**Cone Body with Blended Fiber**

The fiber material blended into the drive cone improves sound response.

**Microscopic View**



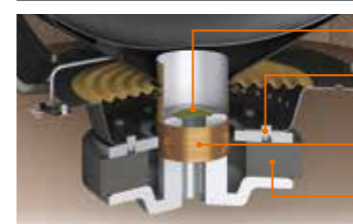
Cone body with fiber

**More Rigid Cone and Louder Bass!**

**Large and Projected York Pole**

Extending the yoke pole of the upper part to the upper side maintains symmetry of vertical cone motion, for sound reproduction of great linearity and accuracy.

**Previous Model**



Bigger Pole

Thicker Plate

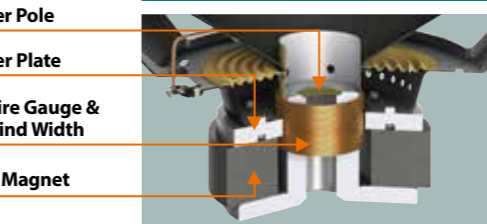
Thicker Wire Gauge & Wider Wind Width

Bigger Magnet

**Long Voice Coil with Enlarged Wire Diameter and Aluminum Bobbin**

Use of thick magnetic wire and an aluminum bobbin ensures excellent durability to withstand high input power.

**Bass-Reflex Subwoofer**



**Urethane Rolled Edge with High Compliance**

**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.

**Double Stacked High Energy Magnets**

With two large magnets, the cone can be driven at high power.

**Louder Bass and More Accurate Sound!**

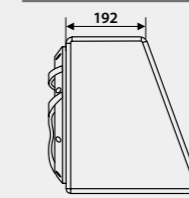
**Eye-catching and Functional Port (TS-WX305B)**



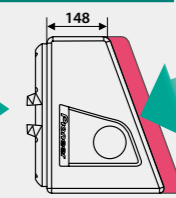
**Installable in Less Space than Previous Subwoofer (TS-WX305B)**

Producing high-power sound from an even shallower enclosure depth for easier installation.

**Previous Model**



**TS-WX305B**



**23% Shallower**

**Easy Installation!**

**Technology of TS-WX120A**

**Flexible Installation**

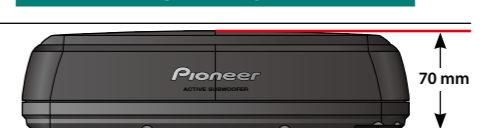
The TS-WX120A has the same width and depth as a previous model, but less height, so it can be easily installed under the seat in various types of cars.

**Previous Model**



75 mm

**TS-WX120A**



70 mm

**Easy Installation!**



**Specifications**

	TS-WX305T	TS-WX305B	TS-WX120A	TS-WX210A
<b>Size</b>	30 cm	30 cm	20 cm x 13 cm	20 cm
<b>Max. Music Power (Nominal)</b>	1,300 W (350 W)	1,300 W (350 W)	150 W* (50 W**)	150 W* (50 W**)
<b>Frequency Response</b>	20 Hz to 125 Hz	20 Hz to 125 Hz	30 Hz to 160 Hz	37 Hz to 200 Hz
<b>Sensitivity (In Car/1 W)</b>	97 dB	95 dB	98 dB	102 dB
<b>Impedance</b>	4 Ω	4 Ω	—	—

\* Maximum output power \*\* Nominal output power

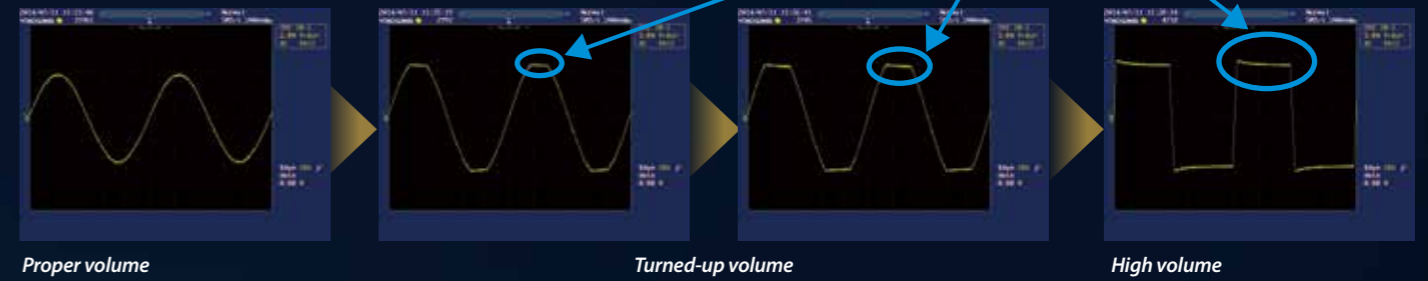


## The Importance of High Sensitivity

### Why is High Sensitivity important for the car speakers?

When you need to turn up the volume from the receiver, the greater the output signal from the receiver's amplifier, the more this signal is distorted, which may cause clipping noise.

### Oscilloscope Images of Sound Distortion



### How do high sensitivity speakers help sound?

Pioneer car speakers sound very clear and sufficiently loud at low receiver volume settings because high sensitivity specifications make the speakers responsive enough to reproduce sound with great precision, even at low receiver amplifier output signal levels.

Conventional Speaker	Pioneer Speaker
<p>Lacks impact</p> <p>Low SPL</p>	<p>Example of TS-G1645R</p> <p>Good sound!</p> <p>High SPL</p>
<p>Too noisy</p>	

## INDEX

/ PRS Series Speakers	69	/ TS-G Series Speakers	82
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/ TS-R Series Speakers	80		



\* The SPL using continuous power of a Pioneer receiver.

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".

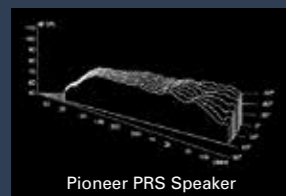
**How "Open & Smooth"?**

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".

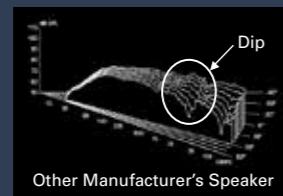
**Smoother Off-Axis Response**

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

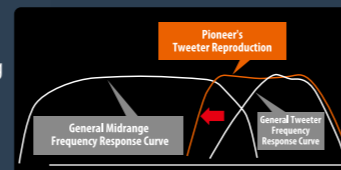


Other Manufacturer's Speaker

**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™

**Pioneer Official 3D Hologram**

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



Green images of 3D hologram logo

\* 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-C172PRS**

17 cm Component Speaker Package

OPEN & SMOOTH™



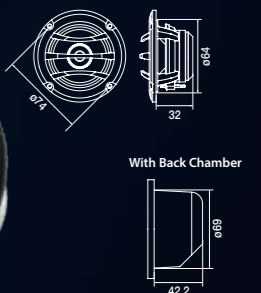
**TS-C132PRS**

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).

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.

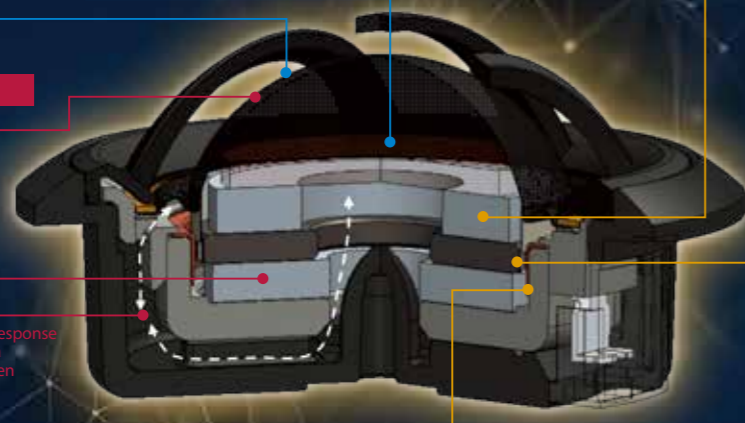
Lower Crossover Frequency

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.



PRS Speaker Cut View — Woofer

High Linearity Sound

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

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 Molding Matrix) Cone

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.

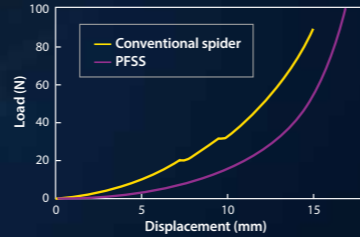
AL/Brass Dual Metal Center Plug

Two different metals combine to reduce resonance.

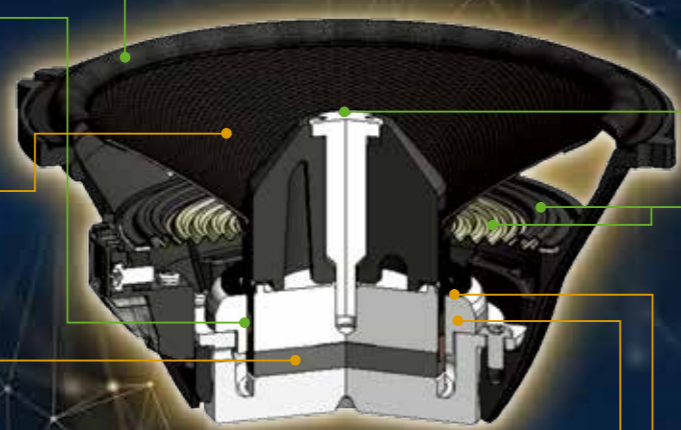
Progressive Flex Suspension System (PFSS)

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



Inside Magnetic Type with Neodymium Magnet



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.

Low Distortion

OFC Short Ring

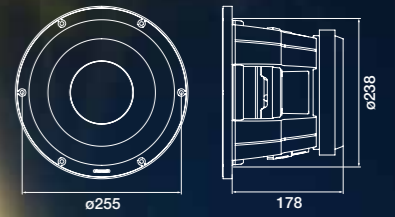
Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

Overhung Top Plate

Focuses the magnetic field towards the voice coil.

TS-W252PRS

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.

TS-W252PRS Cut View

Corrugated Surround

Aramid Fiber (Conex) with Rubber Coating

OFC Short Ring

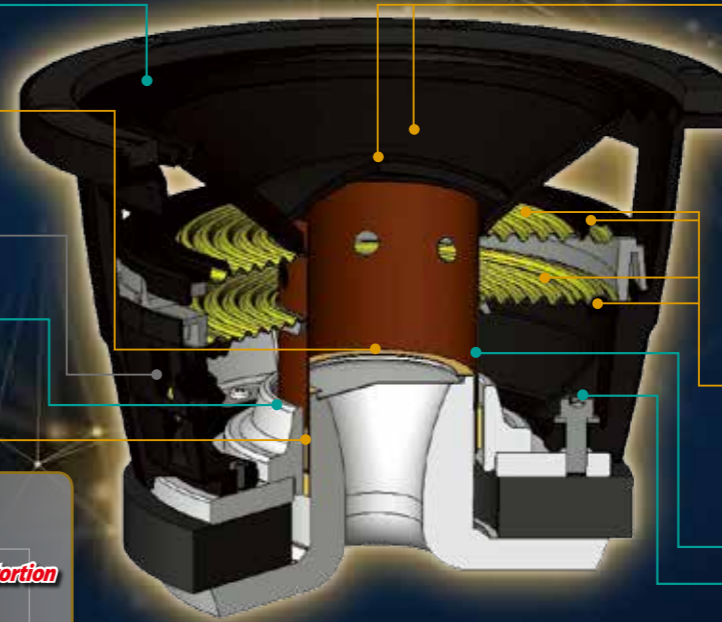
Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

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

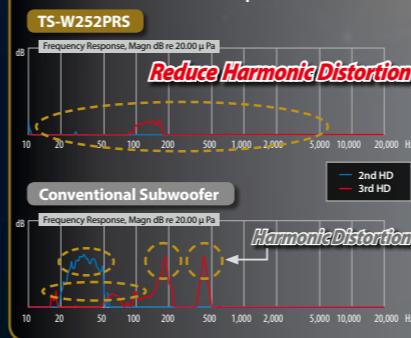
Progressive Flex Suspension System (PFSS)

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.

	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 (1.5 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	—	—	—	—
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

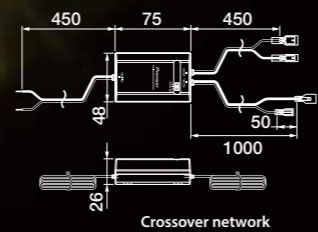
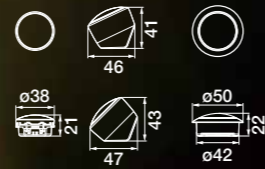
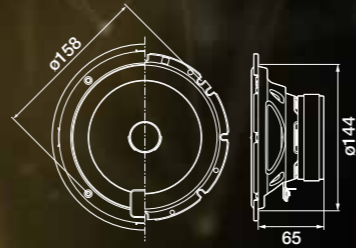
**TS-D1730C** 260 W MAX. **NEW**

17 cm Component Speaker Package

**Twaron**

The power of Aramid

**OPEN & SMOOTH™**



Crossover network

**Key Selling Points**

- **Twaron®\* Aramid fiber cone reproduces deep and bold bass & bold vocal sound and also expresses even the most subtle nuances.**
- **Open & Smooth™ sound concept delivers open staging & smooth transition of driver response to provide the ultimate in-car sound.**
- **Included brackets\*\* provide for installation flexibility and wide coverage.**

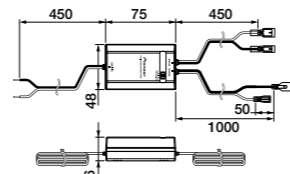
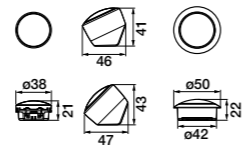
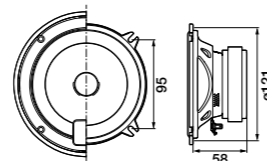
\*Twaron® is a registered trade mark of Teijin Aramid BV. \*\* Only for TS-D1730C.

**TS-D1330C** 180 W MAX. **NEW**

13 cm Component Speaker Package

**Twaron**

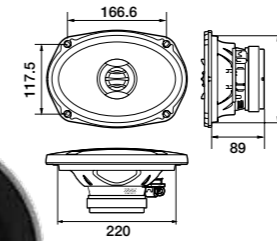
The power of Aramid



Crossover network

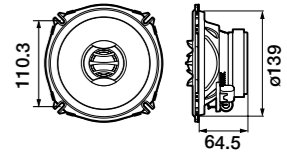
**TS-D6902R** 360 W MAX.

6" x 9" 2-Way Speaker



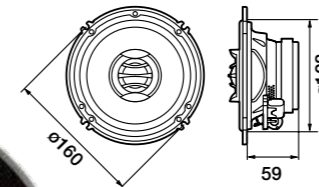
**TS-D1702R** 280 W MAX.

17 cm 2-Way Speaker



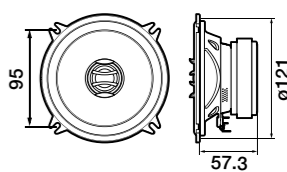
**TS-D1602R** 260 W MAX.

16 cm 2-Way Speaker



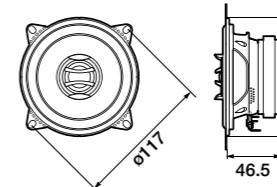
**TS-D1302R** 180 W MAX.

13 cm 2-Way Speaker



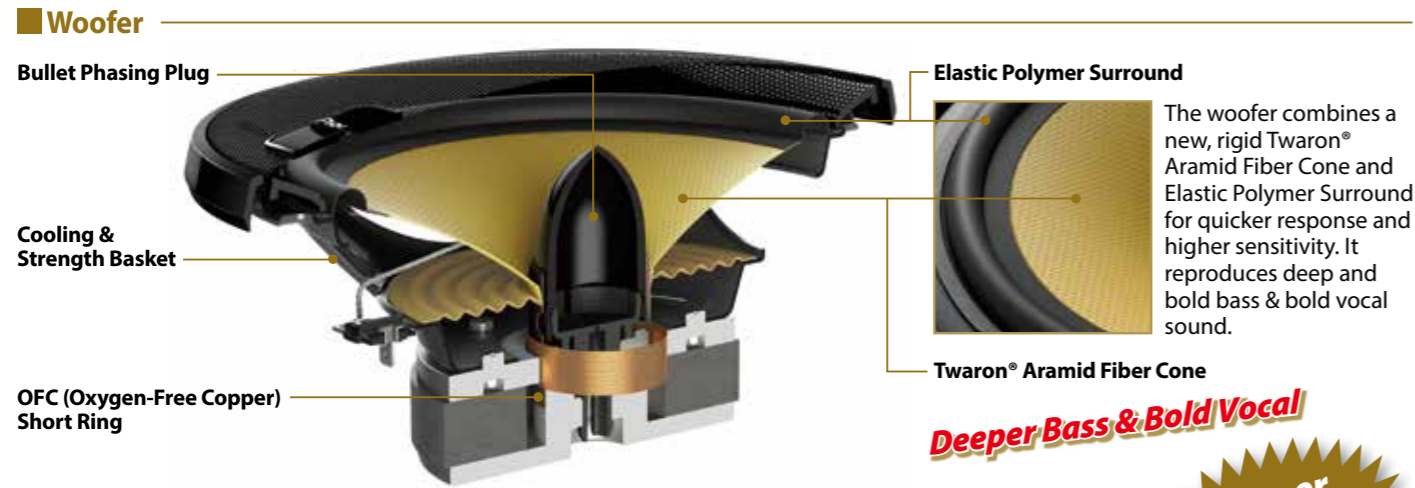
**TS-D1002R** 110 W MAX.

10 cm 2-Way Speaker



Technology of a D-Series Speaker

TS-D1730C Cut View



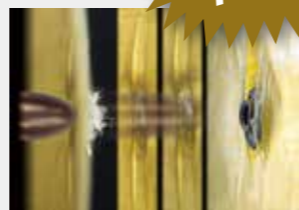
Twaron®\* Aramid Fiber Cone

**Twaron®** The power of Aramid

The new cone on the woofer of the Pioneer TS-D component offers a variety of improvements for optimal performance and phenomenal sound. The aramid fiber cone is constructed from Twaron® woven cloth that is hardened and shaped to produce a rigid and durable cone. The woofer offers stiffer dampening for quicker response. The woofer section of the TS-D component produces deep and bold bass & bold vocal sound.



\* Twaron® is a registered trade mark of Teijin Aramid BV.



**Super Tough**

Even bullets cannot penetrate this material, and no other materials match its toughness.

Open & Smooth Sound

With the "Open & Smooth" sound of Pioneer D-Series Speakers out on the open road, the journey to more dramatic in-car audio sensations moves every passenger in its natural, dynamic flow.

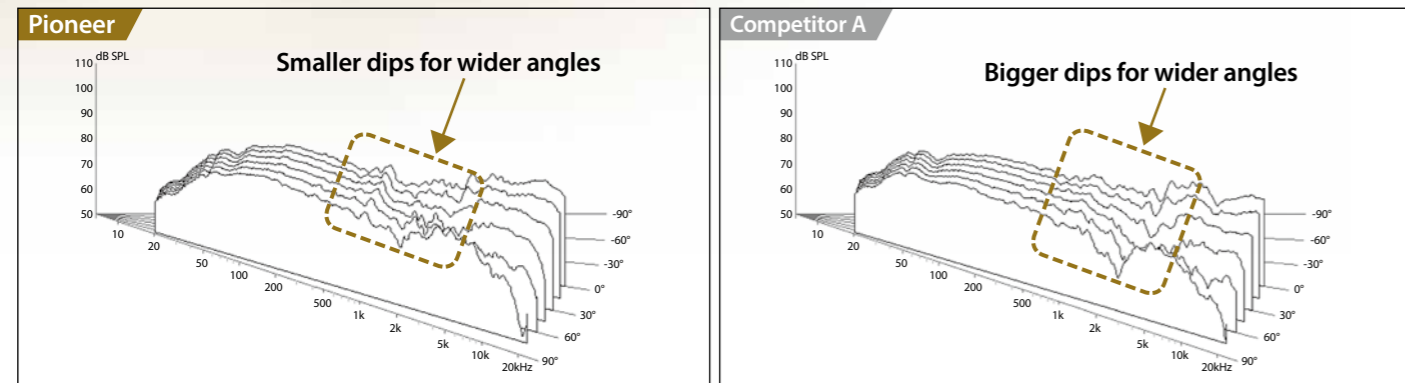


**Open\*** Open staging and sound characteristics enhance the widening effect that extends way beyond the space between speakers.

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

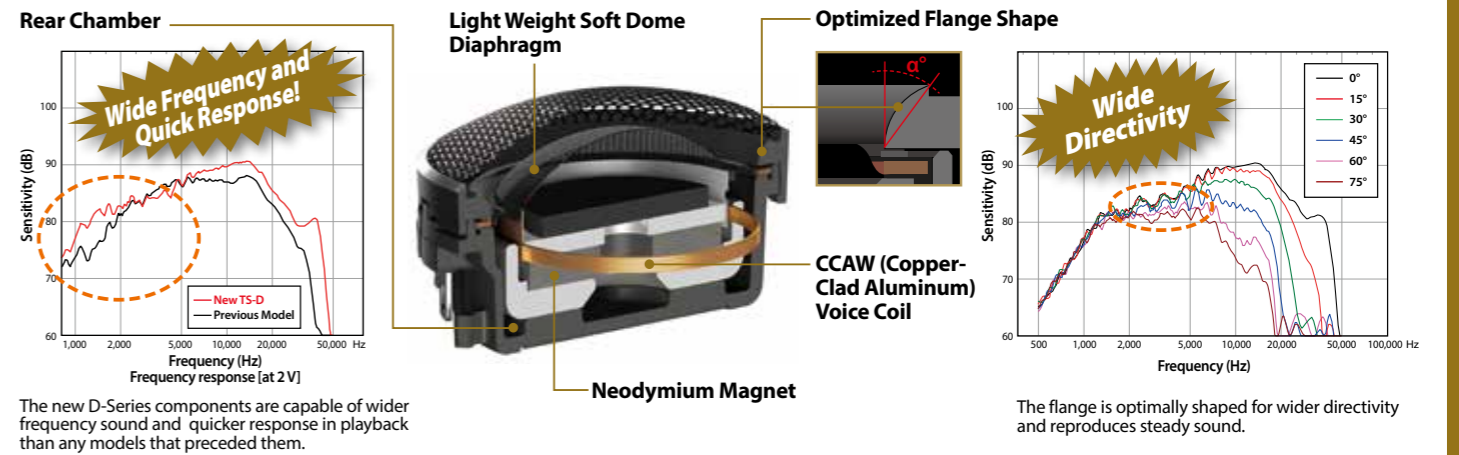
\* For details, please see "Open & Smooth Sound" on page 68.

A Superior Characteristic of D-Series: Smaller Dips for Wider Angles

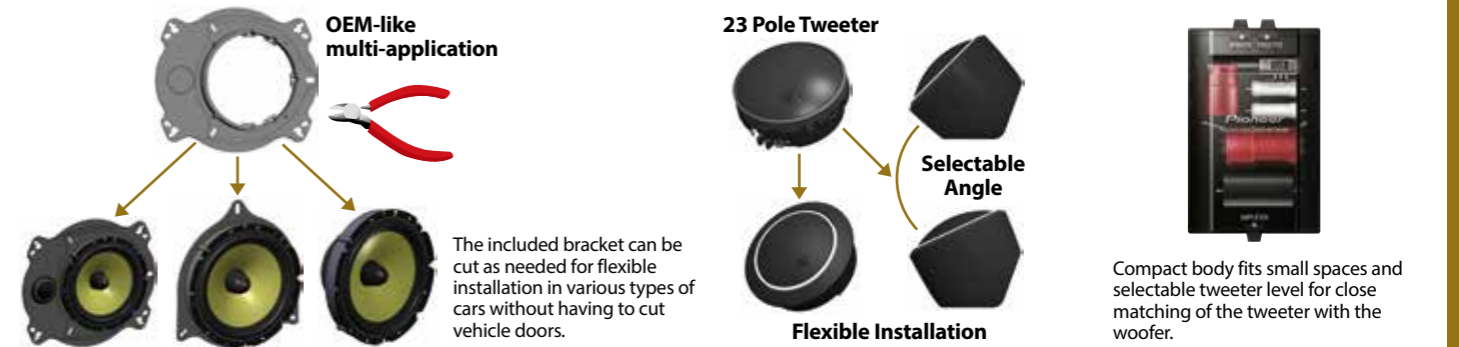


Unlike competitors' speakers, Pioneer D-Series speakers produce more natural sound without big gaps in the high-to-midrange frequency range for various angles.

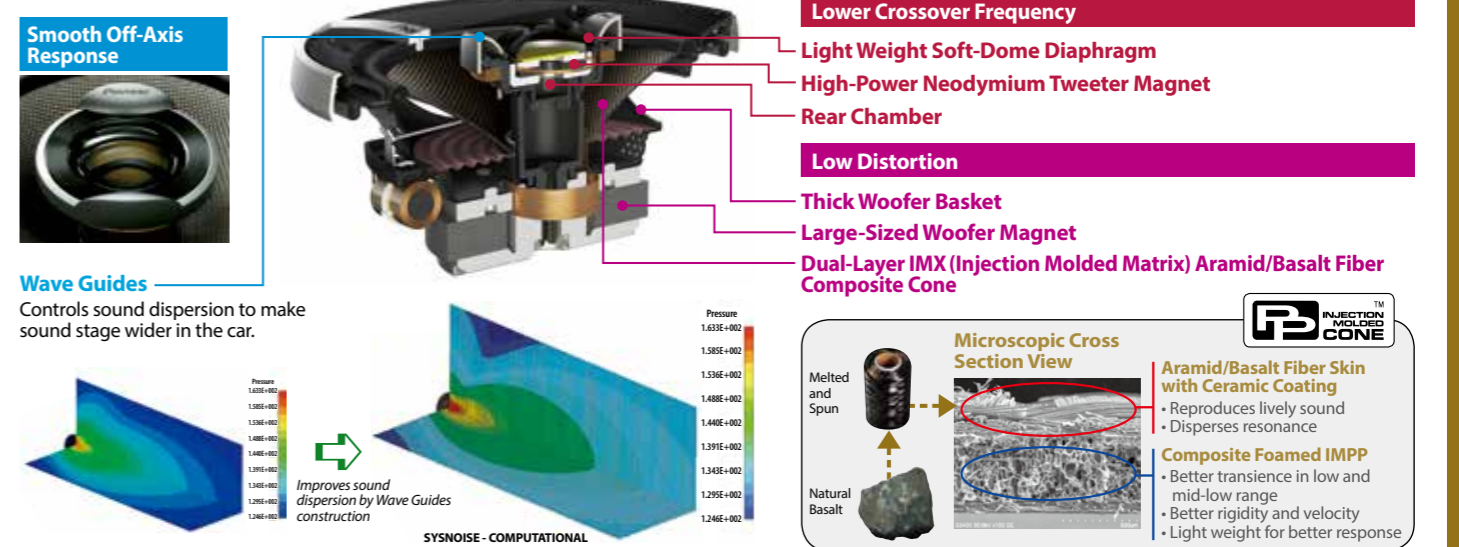
Tweeter



Brackets (for TS-D1730C)



TS-D1602R Cut View



Specifications

	TS-D1730C	TS-D1330C	TS-D6902R	TS-D1702R	TS-D1602R	TS-D1302R	TS-D1002R
<b>Size</b>	17 cm, 23 mm*	13 cm, 23 mm*	6" x 9"	17 cm	16 cm	13 cm	10 cm
<b>Max. Music Power (Nominal)</b>	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)
<b>Frequency Response</b>	27 Hz to 44 kHz	37 Hz to 44 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
<b>Sensitivity (1 W/1 m)</b>	88 dB	88 dB	90 dB	88 dB	88 dB	88 dB	86 dB
<b>Impedance</b>	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
<b>Crossover Frequency</b>	4,500 Hz (with -12 dB)	4,500 Hz (with -12 dB)	2,800 Hz	3,200 Hz	4,000 Hz	6,000 Hz	6,000 Hz
<b>Mounting Depth</b>	65 mm 13 mm*	58 mm 13 mm*	89 mm	64.5 mm	59 mm	57.3 mm	46.5 mm
<b>Mounting Depth with Mount Adapter</b>	45 mm**	—	—	—	—	—	—
<b>Cut-Out Dimensions</b>	ø144 mm	ø121 mm	151 mm x 220 mm	ø139 mm	ø128 mm	ø121 mm	ø106 mm

\* Tweeter specification \*\* With 6" x 9" tweeter bracket

### TS-A1606C 350 W MAX. NEW

16 cm Component Speaker Package

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A1606C:  
 - Main speaker:  $\phi 178$  (width),  $\phi 144$  (height),  $\phi 158$  (depth)  
 - Tweeter:  $\phi 35$  (width), 20 (height),  $\phi 42$  (depth)  
 - Tweeter: 19 (width), 41 (height), 46 (depth)  
 - Crossover network: 300 (width), 66 (height), 1,000 (depth), 50 (width), 24 (height)

### Key Selling Points

- Deeper bass and clearer high frequencies sound reproduction is realized with higher dynamic range for greater listening experiences.
- With the balanced combination of the parts, higher power handling ability is realized for more impactful sound and vibrant music playback (Max Power increased for TS-A1676S and 6" x 9" models).
- High-quality appearance and universal design enhance the vehicle interior. High durability can withstand even severe use (fully covered mesh grille included for 6" x 9" models).

### TS-A1306C 300 W MAX. NEW

13 cm Component Speaker Package

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A1306C:  
 - Main speaker:  $\phi 155$  (width), 52 (height),  $\phi 121$  (depth)  
 - Tweeter:  $\phi 35$  (width), 20 (height),  $\phi 42$  (depth)  
 - Tweeter: 19 (width), 41 (height), 46 (depth)  
 - Crossover network: 300 (width), 66 (height), 1,000 (depth), 50 (width), 24 (height)

### TS-A6996S 650 W MAX. NEW HOLOGRAM

6" x 9" 5-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A6996S:  
 - Speaker: 166.6 (width), 85 (height), 153 (depth)  
 - Tweeter:  $\phi 117.5$  (width), 222 (height)

### TS-A6986S 600 W MAX. NEW HOLOGRAM

6" x 9" 4-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A6986S:  
 - Speaker: 166.6 (width), 84 (height), 153 (depth)  
 - Tweeter:  $\phi 117.5$  (width), 222 (height)

### TS-A6976S 550 W MAX. NEW HOLOGRAM

6" x 9" 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A6976S:  
 - Speaker: 166.6 (width), 84 (height), 153 (depth)  
 - Tweeter:  $\phi 117.5$  (width), 222 (height)

### TS-A6966S 420 W MAX. NEW HOLOGRAM

6" x 9" 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A6966S:  
 - Speaker: 166.6 (width), 71 (height), 153 (depth)  
 - Tweeter:  $\phi 117.5$  (width), 222 (height)

### TS-A1686S 350 W MAX. NEW HOLOGRAM

16 cm 4-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A1686S:  
 - Speaker:  $\phi 158$  (width), 54 (height),  $\phi 144$  (depth)

### TS-A1676S 320 W MAX. NEW HOLOGRAM

16 cm 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A1676S:  
 - Speaker:  $\phi 158$  (width), 44 (height),  $\phi 128$  (depth)

### TS-A1376S 300 W MAX. NEW

13 cm 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A1376S:  
 - Speaker:  $\phi 137$  (width), 53 (height),  $\phi 121$  (depth)

### TS-A6886R 350 W MAX. NEW

6" x 8" 4-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A6886R:  
 - Speaker: 126 (width), 81 (height), 133 (depth)  
 - Tweeter: 106.7 (width), 191 (height)

### TS-A4676R 200 W MAX. NEW

4" x 6" 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A4676R:  
 - Speaker: 76 (width), 43 (height), 95 (depth)  
 - Tweeter: 133 (width), 153 (height)

### TS-A2013i 500 W MAX.

20 cm 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A2013i:  
 - Speaker:  $\phi 202$  (width), 143 (height),  $\phi 186$  (depth)  
 - Tweeter: 89 (width)

### TS-A2503i 420 W MAX.

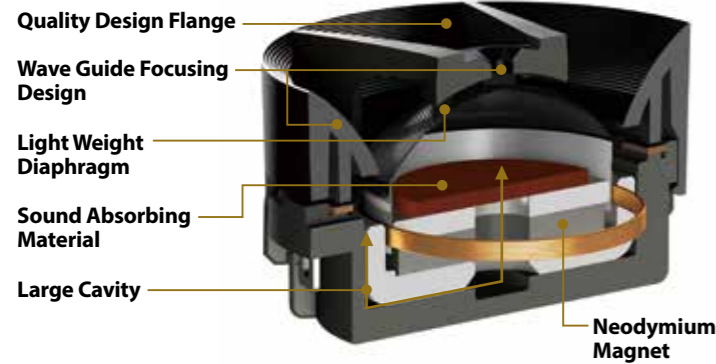
25 cm 3-Way Speaker

MULTILAYER MICA MATRIX CONE  
High Dynamic Range

Technical drawings for TS-A2503i:  
 - Speaker:  $\phi 255$  (width), 115 (height)

Technology of an A-Series Speaker

TS-A1606C Cut View



**P.F.S.S. Spider\***  
Achieves the best balance between sound quality and high durability. This system realizes ideal sound reproduction.

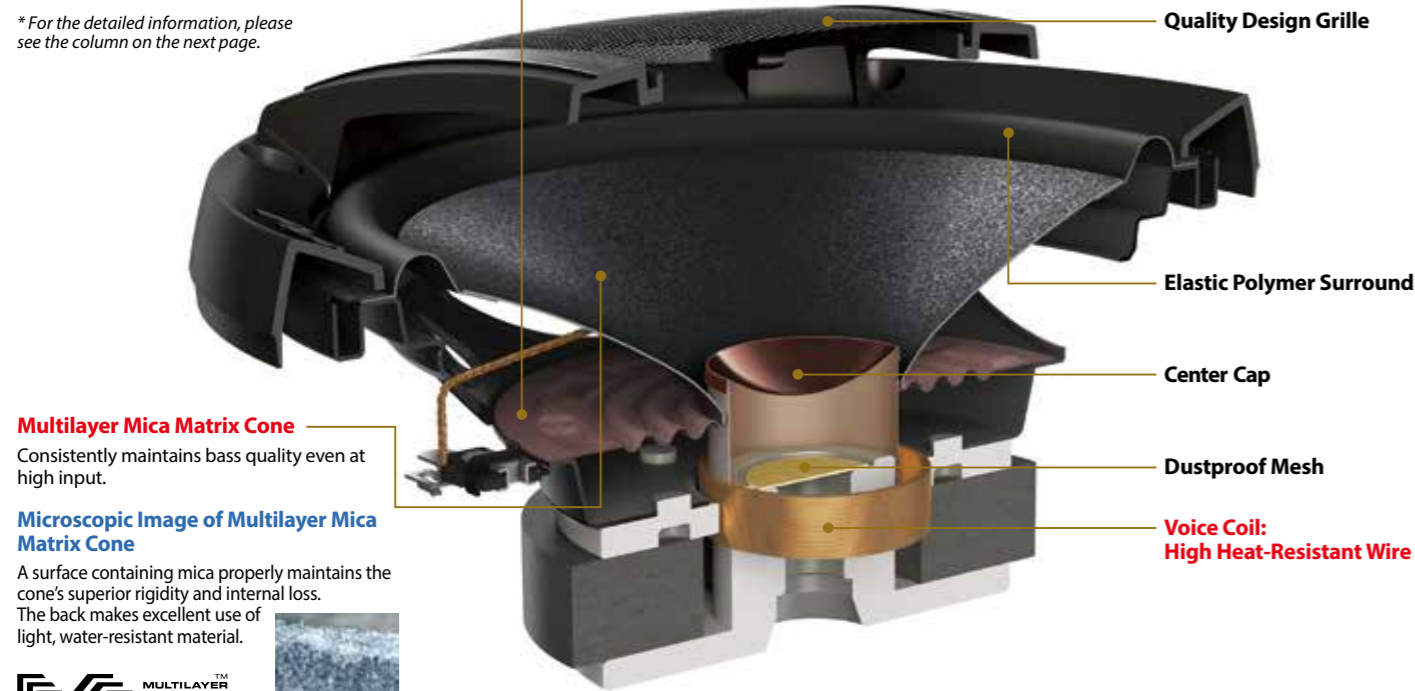
\* For the detailed information, please see the column on the next page.

Installation Flexibility — Tweeter Mounting Options



The flexible three-way installation tweeter disperses sound more widely with superior control, providing listeners with the best sound under all conditions, regardless of listening position or car.

**External Passive Crossover Network**  
An external crossover network takes optimal advantage of woofer and tweeter sound characteristics.



**Multilayer Mica Matrix Cone**  
Consistently maintains bass quality even at high input.

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.



Solid Bass Sound



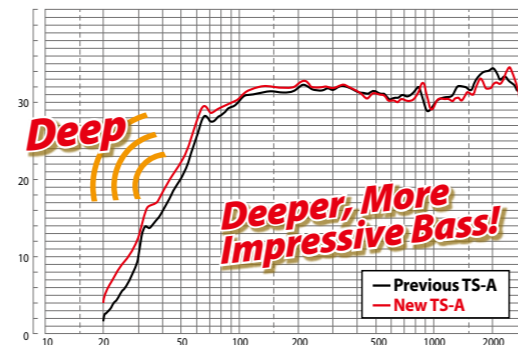
Various materials were carefully combined to develop a diaphragm of extra lightness and rigidity to reproduce sound clearly with outstanding responsiveness, sensitivity and a suitable degree of internal loss.



**High Rigidity!**  
(by adjusting mixed material and density)

Deeper Bass Sound

Compared to the former models, the new A Series can reproduce deeper bass sound, bringing you more impressive experiences of sound and music.



Technology of an A-Series Speaker

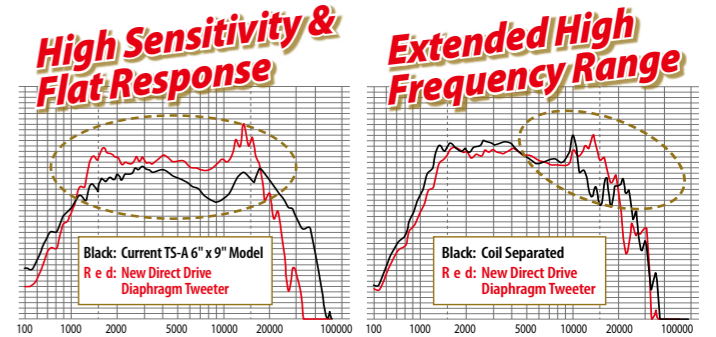
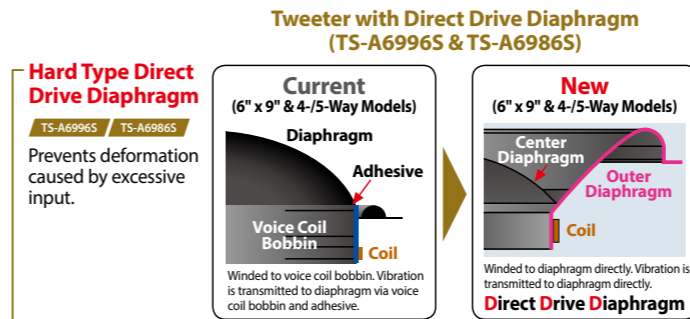
TS-A6996S Cut View

Increased Max Power

Max music power resulting from the combination of optimized parts (indicated by red letters on the diagram below) exceeds the power of the previous A Series models.

Note: The following explanations are not for TS-A2013i and TS-A2503i.

Example	Previous	TS-A6995S (600 W MAX.)	→	New	TS-A6996S (650 W MAX.)
	Previous	TS-A1675S (300 W MAX.)	→	New	TS-A1676S (320 W MAX.)



Multilayer Mica Matrix Cone

Consistently maintains bass quality even at high input.

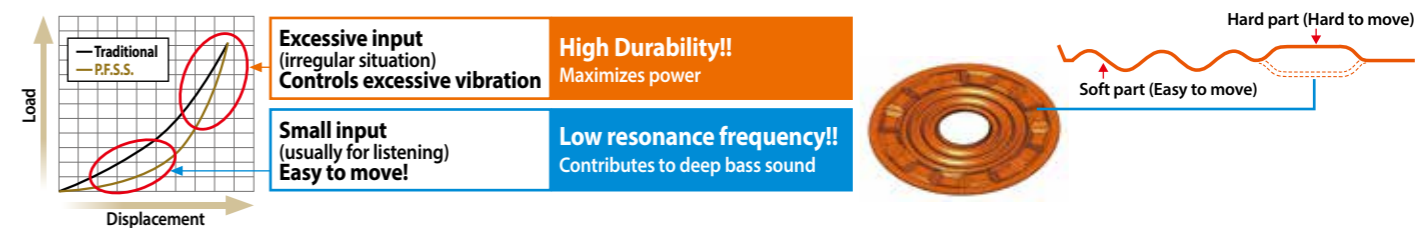
Elastic Polymer Surround

P.F.S.S. Spider

Achieves the best balance between sound quality and high durability. This system realizes ideal sound reproduction.

Progressive Flex Suspension System (P.F.S.S. patented technology, for 6" x 9" models and TS-A1686S)

With exclusive material inherited from Pioneer's high-end PRS Series, this system realizes ideal sound reproduction. At a small input, its soft part makes movement smooth and reproduces clear sound and at excessive input, its hard part controls excessive vibration and prevents movement error.



Specifications

	TS-A1606C	TS-A1306C	TS-A6996S	TS-A6986S	TS-A6976S	TS-A6966S	TS-A1686S
Size	16 cm 20 mm*	13 cm 20 mm*	6" x 9"	6" x 9"	6" x 9"	6" x 9"	16 cm
Max. Music Power (Nominal)	350 W (60 W)	300 W (50 W)	650 W (100 W)	600 W (100 W)	550 W (90 W)	420 W (60 W)	350 W (60 W)
Frequency Response	32 Hz to 43 kHz	42 Hz to 42 kHz	28 Hz to 38 kHz	27 Hz to 37 kHz	27 Hz to 24 kHz	28 Hz to 36 kHz	32 Hz to 38 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	93 dB	92 dB	92 dB	92 dB	91 dB
Impedance	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	71 mm	54 mm
Cut-Out Dimensions	ø144 mm	ø121 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	ø144 mm

	TS-A1676S	TS-A1376S	TS-A6886R	TS-A4676R	TS-A2013i	TS-A2503i
Size	16 cm	13 cm	6" x 8"	4" x 6"	20 cm	25 cm
Max. Music Power (Nominal)	320 W (50 W)	300 W (50 W)	350 W (60 W)	200 W (30 W)	500 W (80 W)	420 W (80 W)
Frequency Response	32 Hz to 40 kHz	40 Hz to 39 kHz	28 Hz to 39 kHz	35 Hz to 42 kHz	25 Hz to 28 kHz	20 Hz to 31 kHz
Sensitivity (1 W/1 m)	90 dB	89 dB	91 dB	88 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	44 mm	53 mm	61 mm	43 mm	89 mm	115 mm
Cut-Out Dimensions	ø128 mm	ø121 mm	133 mm x 191 mm	95 mm x 153 mm	ø186 mm	ø236 mm

\* Tweeter specification



**TS-R6950S** 300 W MAX.

6" x 9" 3-Way Speaker

**High Sensitivity**

**TS-R1750S** 250 W MAX.

17 cm 3-Way Speaker

**High Sensitivity**

**TS-R1650S** 250 W MAX.

16 cm 3-Way Speaker

**High Sensitivity**

**TS-R1350S** 250 W MAX.

13 cm 3-Way Speaker

**High Sensitivity**

### Key Selling Points

- **Multilayer Mica Matrix cone design delivers the ultimate listening experience with remarkable efficiency to energize loud, clear sound performance.**
- **Aggressive grille and red flange design create a strong impression even long after installation.**
- **Extra screw holes for easier installation for various cars.**

### Technology of an R-Series Speaker

#### TS-R6950S Cut View

##### 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.

##### 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.



##### High Sensitivity

##### Light Weight Rubber Coated Cloth Surround

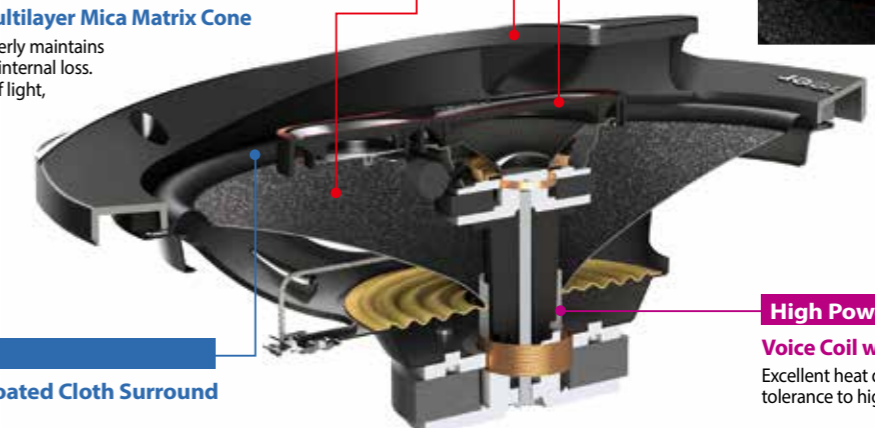
##### Aggressive Grille and Red Flange



##### High Power

##### Voice Coil with Aluminum Bobbin

Excellent heat dissipation and durability enhance tolerance to high input power.



#### More Flexible Installation

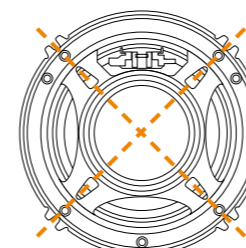
With refined baskets and added screw holes, the TS-R speakers can be installed with greater flexibility in various cars.

##### Basket Design

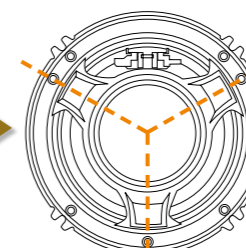
##### Conventional Speaker

##### TS-R1650S

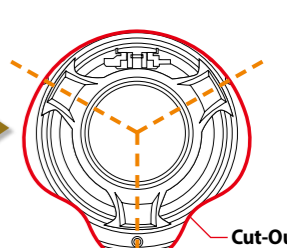
##### Example of Installable Vehicle



From 4- to 3-basket arm



Installed to



Cut-Out Hole

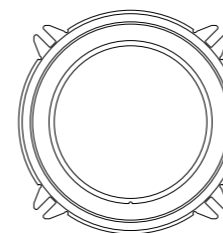
##### Screw Hole

##### Conventional Speaker

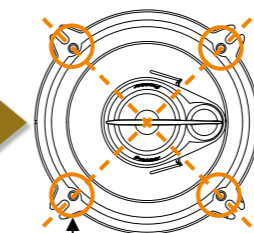
##### TS-R1350S

##### Conventional Speaker

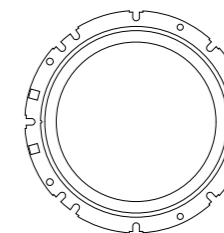
##### TS-R1750S



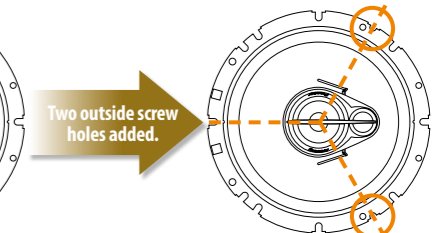
Four inside screw holes added.



Added screw hole



Two outside screw holes added.



Added screw hole

#### Specifications

	TS-R6950S	TS-R1750S	TS-R1650S	TS-R1350S
Size	6" x 9"	17 cm	16 cm	13 cm
Max. Music Power (Nominal)	300 W (50 W)	250 W (40 W)	250 W (40 W)	250 W (35 W)
Frequency Response	30 Hz to 35 kHz	36 Hz to 31 kHz	35 Hz to 31 kHz	44 Hz to 31 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	90 dB	89 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	67 mm	47 mm	40 mm	47 mm
Cut-Out Dimensions	153 mm x 222 mm	ø137 mm	ø128 mm	ø111 mm

### TS-G1605C 280 W MAX. 3D HOLOGRAM

16 cm Component Speaker Package

INJECTION MOLDED CONE™  
Wide Application

Dimensions: 113, 39, 36, 14, 37, 47, 1,200, 300, 300

Crossover network

### Technology of a G-Series Speaker

#### TS-G1605C Cut View

**Mica Reinforced IMPP Cone**  
The mica is mixed into the cone material in precise proportions to optimize cone rigidity and to reproduce impactful bass.

**Speedy Response!**

**Vivid Sound!**

### Key Selling Points

- Mica-reinforced IMPP cone reproduces natural sound with impressive bass.
- Shallow mounting depth and comprehensive lineup allow for wide applications.
- Universal cosmetic design suits a variety of automobile interior colors.

#### TS-G1645R 250 W MAX. 3D HOLOGRAM

16 cm 2-Way Speaker

#### TS-G1345R 250 W MAX. 3D HOLOGRAM

13 cm 2-Way Speaker

#### TS-G1045R 210 W MAX. 3D HOLOGRAM

10 cm 2-Way Speaker

#### TS-G1615R 230 W MAX. 3D HOLOGRAM

16 cm Dual-Cone Speaker

#### TS-G1315R 230 W MAX. 3D HOLOGRAM

13 cm Dual-Cone Speaker

#### TS-G1015R 190 W MAX. 3D HOLOGRAM

10 cm Dual-Cone Speaker

#### TS-G1645R Cut View

**OFC Short Ring**  
Reduces a distortion, and expands a high frequency range.

**Clear Vocal!**

### Specifications

	TS-G1605C	TS-G1645R	TS-G1345R	TS-G1045R	TS-G1615R	TS-G1315R	TS-G1015R
Size	16 cm 30 mm*	16 cm	13 cm	10 cm	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	280 W (45 W)	250 W (40 W)	250 W (35 W)	210 W (30 W)	230 W (40 W)	230 W (35 W)	190 W (30 W)
Frequency Response	30 Hz to 28 kHz	26 Hz to 27 kHz	34 Hz to 25 kHz	38 Hz to 29 kHz	30 Hz to 25 kHz	33 Hz to 24 kHz	38 Hz to 26 kHz
Sensitivity (1 W/1 m)	89 dB	89 dB	86 dB	84 dB	90 dB	88 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	39 mm	38 mm	44 mm	43 mm	39 mm	44 mm	43 mm
Cut-Out Dimensions	ø128 mm	ø128 mm	ø121 mm	ø106 mm	ø128 mm	ø121 mm	ø106 mm

\* Tweeter specification

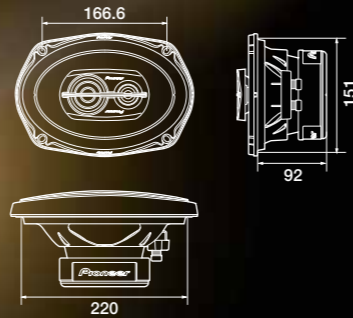
# TS-6975 V2

500 W MAX.



Champion series

6" x 9" 3-Way Champion Series Speaker



## Key Selling Points

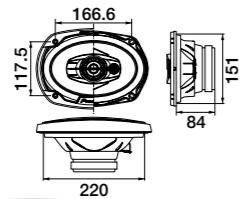
- Inherits technology from Champion series subwoofer for powerful, punchy sound.
- PEEK film cone creates vivid, crisp sound. (TS-6975 V2/TS-1675 V2)
- Basket design for wider installation coverage, without compromising high power input capability. Although the TS-1675 V2 is designated as a 16 cm installation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

### TS-6965 V2

400 W MAX.



6" x 9" 3-Way Champion Series Speaker



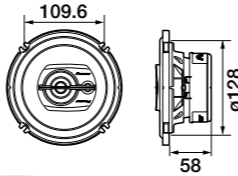
### TS-1675 V2

300 W MAX.



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.

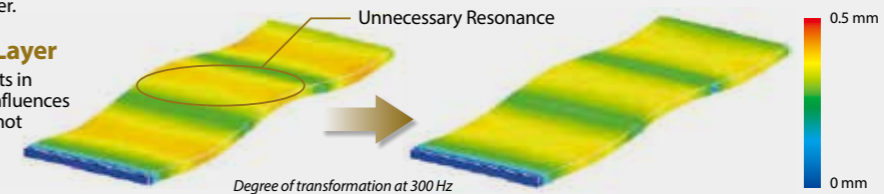
### Champion Series Speaker Cross Section Detail



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.



#### 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.

#### High Sensitivity

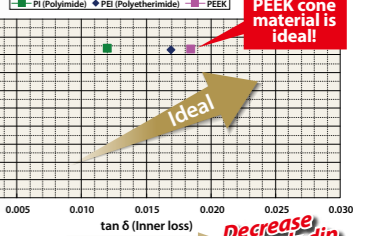
TS-6975 V2 TS-1675 V2

#### 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)



PEEK cone material is ideal! Decrease peak-dip

#### Copper-Clad Aluminum Wire Voice Coil

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

### Larger-Than-Normal Cone for 16 cm Cutout

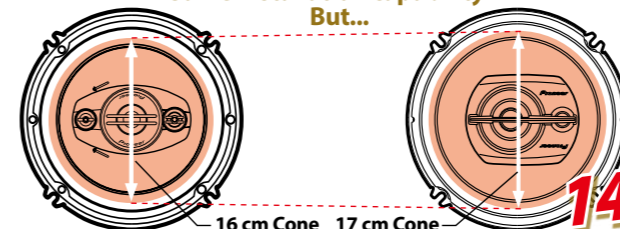
The TS-1675 V2 can be installed in a 16 cm- or 17 cm-diameter cutout hole. Superior bass response comes from a cone diameter larger than that of a conventional 16 cm speaker. Shallow basket depth enhances versatility of installation.

TS-A1683S

TS-1675 V2

Cut-Out Hole : 128 mm ← Cut-Out Hole : 128 mm

Same installation capability But...



14% Bigger Cone Size

## 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

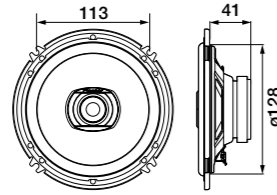
**TS-F1634R** 200 W MAX.



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



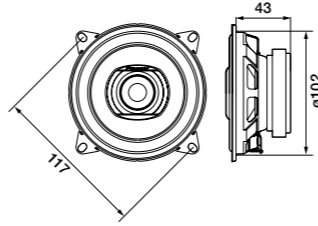
**TS-F1034R** 150 W MAX.



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



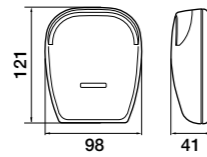
**TS-CX900** 80 W MAX.



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

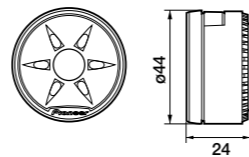


**TS-S250** 250 W MAX.

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



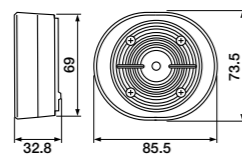
**TS-S20** 200 W MAX.



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

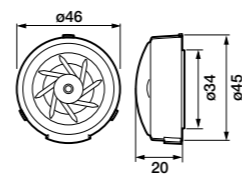


**TS-T110** 120 W MAX.

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



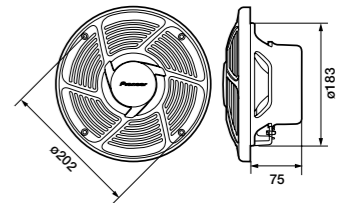
**TS-MR2040** 200 W MAX.



20 cm Marine-Use 2-Way Speaker

**FEATURES:**

- White Water-Resistant IMPP Cone Woofer
- Water-Resistant Elastomer Surround
- Glass-Imide Voice Coil Bobbin
- Conex Damper
- 20 mm PI Dome Reflex Horn Tweeter
- High-Quality Corrosion-Resistant Hardware
- Gold-Plated Terminal
- Weather-Proof and Heat-Resistant Resin



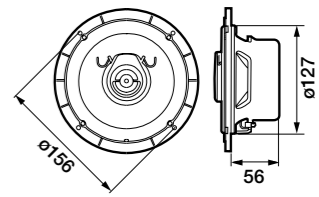
**TS-MR1640** 160 W MAX.



16 cm Marine-Use 2-Way Speaker

**FEATURES:**

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



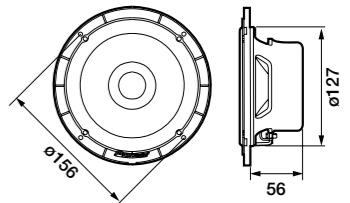
**TS-MR1600** 100 W MAX.



16 cm Marine-Use Dual-Cone Speaker

**FEATURES:**

- White Water-Resistant IMPP Cone Woofer
- Water-Resistant Elastomer Surround
- Glass-Imide Voice Coil Bobbin
- Conex Damper
- High-Quality Corrosion-Resistant Hardware
- Gold-Plated Terminal
- Weather-Proof and Heat-Resistant Resin



**Specifications**

	TS-F1634R	TS-F1034R	TS-CX900	TS-S250	TS-S20
<b>Size</b>	16 cm	10 cm	6.6 cm	40 mm	20 mm
<b>Max. Music Power (Nominal)</b>	200 W (25 W)	150 W (20 W)	80 W (20 W)	250 W (50 W)	200 W (50 W)
<b>Frequency Response</b>	31 Hz to 16 kHz	45 Hz to 18 kHz	80 Hz to 70 kHz	6,000 Hz to 40 kHz	3,000 Hz*/1,200 Hz** to 26 kHz
<b>Sensitivity (1 W/1 m)</b>	88 dB	86 dB	81 dB	97 dB	92 dB
<b>Impedance</b>	4 Ω	4 Ω	4 Ω	8 Ω	8 Ω
<b>Mounting Depth</b>	41 mm	43 mm	—	—	—
<b>Cut-Out Dimensions</b>	128 mm	102 mm	—	—	—

\*With network \*\*Without network

	TS-T110	TS-MR2040	TS-MR1640	TS-MR1600
<b>Size</b>	22 mm	20 cm	16 cm	16 cm
<b>Max. Music Power (Nominal)</b>	120 W (40 W)	200 W (40 W)	160 W (30 W)	100 W (25 W)
<b>Frequency Response</b>	2,500 Hz to 30 kHz	25 Hz to 30 kHz	30 Hz to 30 kHz	30 Hz to 20 kHz
<b>Sensitivity (1 W/1 m)</b>	90 dB	92 dB	91 dB	90 dB
<b>Impedance</b>	4 Ω	4 Ω	4 Ω	4 Ω
<b>Mounting Depth</b>	—	75 mm	56 mm	56 mm
<b>Cut-Out Dimensions</b>	—	183 mm	127 mm	127 mm

# INDEX

Accessories	89	Amplifiers Features Comparison & Specifications	95
AV Receivers Features Comparison	90	Subwoofers & Speakers Specifications	96
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Amplifier & Subwoofer Connection and Combination Charts	94		

## Accessories Connection Table with AV and Audio Receivers

ACCESSORY COMPATIBILITY

		AVH-X8750BT	AVH-X5850BT AVH-X2850BT AVH-X7850BT	AVH-X4850DVD AVH-X1850DVD AVH-X6850DVD	AVH-285BT AVH-185DVD	AVH-3850DVD	DVH-885AVBT	DVH-785AV DVH-345SUB	DEX-P99RS	DEH-X9650BT DEH-X8750BT DEH-X6850BT MVH-X385BT MXT-X386BT	DEH-80PRS DEH-9450UB DEH-X9650SD DEH-X7750UI DEH-X3850UI DEH-X4850FD DEH-X2850UI FH-X575UI MVH-X285FD MVH-X185UI MXT-X186UI	DEH-X1850UB(G) DEH-155MP(G) FH-X385UB DXT-X1869UB DXT-X186UB
iPod/iPhone 	CD-IH202	*1										
	CD-IU201S	*2										
	CD-IU201V											
	CD-IU52		*3	*3							(Except DEH-80PRS and DEH-9450UB)	
	CD-IU51											
Android 	CD-AH200	*4										
	CD-MU200	*5	*6	*6						*7	*7 (Except DEH-80PRS and DEH-9450UB)	*7 (Except DEH-155MP(G))
Built-in MirrorLink™ 	CD-MU200											
Tuner** 	GEX-1550DTV*9											
	GEX-1550TV*9											
Back Up Camera 	ND-BC8							DVH-785AV				
	ND-BC20PA							DVH-785AV				
System 	CD-MC20											
Remote Control*10 	CD-R320											
	CD-SR110				AVH-285BT							
	CD-SR100											

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. Required when AppRadio Mode is in use with iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5 or 5th generation iPod touch. Requires Apple® Lightning Digital AV Adapter and CD-IU52 (sold separately).  
 \*2. Required when AppRadio Mode is in use with iPhone 4/4s or 4th generation iPod touch.  
 \*3. Required when AppRadio Mode USB is in use with iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5 or 5th generation iPod touch.

\*4. Required when AppRadio Mode is in use with Android phone.  
 \*5. Required when Android Auto™ is in use with Android phone.  
 \*6. Required when AppRadio Mode USB is in use with Android phone.  
 \*7. Required when USB Direct Control is in use with Certain Android phones.  
 \*8. May not be compatible with certain receivers.  
 \*9. GEX-1550DTV for RD Model. GEX-1550TV for RC and RI Models. See page 19 for more details.  
 \*10. Not all functions can be operated using the remote control.

### Audio/Video Receiver Accessories

<b>ND-BC8</b> <small>NEW</small> Universal Rear View Camera	<b>ND-BC20PA</b> ND-BC2 with Parking Assistant Feature	<b>CD-MC20</b> Microphone for Auto EQ and Auto Time Alignment Frequency Band Fine-Tuning	<b>GEX-1550DTV</b> Digital TV Tuner for ISDB-T (RD Model)* <small>* See page 19 for more details.</small>
			<b>GEX-1550TV</b> Analog TV Tuner for PAL/SECAM/NTSC (RC and RI Models)* <small>* See page 19 for more details.</small>

### Remote Controls

<b>CD-R510</b> Remote Control <small>• For use with receiver with Bluetooth wireless technology.</small>	<b>CD-R320</b> Optional Remote Control for DEH Series Receivers

### Android Connectivity

<b>CD-AH200</b> AppRadio Mode App Connectivity Kit for Android

### Smartphone Connectivity

<b>CD-MU200*</b> USB Interface Cable for AppRadio Mode USB, Android Use with Android Auto™ and MirrorLink™ Devices (USB-USB Cable: 1.5 m/USB-microUSB Cable: 50 cm)

<b>CD-SR110</b> Steering Wheel Remote Control for Bluetooth Receivers	<b>CD-SR100</b> Steering Wheel Remote Control

Note: Please refer to pages 88 and 92 for accessories for connection of Android details.

\* Availability of receiver's features depends on type of smartphone connected.

### Auxiliary Input Accessory

<b>CD-RM10</b> AUX Mini-Plug to Composite A/V Cable (2 m)

### iPod/iPhone Connectivity

<b>CD-IH202</b> AppRadio Mode HDMI/USB Interface Cable for iPod/iPhone with Lightning Connector	<b>CD-IU201S</b> AppRadio Mode USB Interface Cable for iPhone 4, iPhone 4s, or 4th Generation iPod touch (USB Cable: 50 cm/RGB Cable: 2 m)	<b>CD-IU51V</b> USB Interface Cable for iPod/iPhone (USB and AUX Cable: 50 cm)	<b>CD-IU51</b> USB Interface Cable for iPod/iPhone (50 cm)
<b>CD-IU201V</b> USB Interface Cable for iPod/iPhone (USB and AUX Cable: 50 cm/ AUX Extension Cable: 1.5 m)	<b>CD-IU52</b> USB Interface Cable for iPod/iPhone with Lightning Connector (50 cm)	<b>CD-V150M</b> Mini-Jack Cable for iPod (1.5 m)	

Note: Please refer to pages 88 and 92 for accessories for connection of iPod/iPhone details.

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

AV Receivers Features Comparison

Table comparing AV Receiver models (AVH-X8750BT to DVH-785AV) across various features like Display, Tuner, Audio, Video, and Network capabilities.

Audio Receivers Features Comparison

Table comparing Audio Receiver models (DEH-PP0RS to MXT-X186U) across features like Memory Card/Bluetooth, Tuner, Audio, and Network capabilities.

\*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.

\*9 Only for audio files. \*10 Compatible with full-featured Non-Stop Mix Play based on data from music analysis performed using MIXTRAX software.

\*11 Quick, easy, accessible Non-Stop Mix Play without music analysis data from MIXTRAX software. Compatible sources: iPod, iPhone, USB Device and SD Memory Card.

\*8 For the files stored in USB thumb drive. \*9 See page 45 for more details about GS and CS models. \*10 Only for GS models. See page 45 for more details about GS models.

# The Best Solutions To Enjoy iPod & Android

## Connection Table for iPod/iPhone with Pioneer Receivers

Model	Interface	Use with	iPhone*		iPod	iPod classic	iPod touch*				iPod nano					
			iPhone <sup>2</sup>	iPhone 3G iPhone 3GS	iPhone 4 iPhone 4s	5th gen.	16GB (2007/2009) 12GB 8GB	1st gen. <sup>3</sup>	2nd gen.	3rd gen.	4th gen.	1st/2nd gen.	3rd gen.	4th gen.	5th gen.	6th gen.
AVH-X8750BT	USB Direct Connection for Video, Music and AppRadio Mode	CD-IU2015 <sup>3</sup>														
	USB Direct Connection for Video and Music	CD-IU201V														
AVH-X850BT/AVH-X4850D/D AVH-X285BT/AVH-X1850D/D AVH-X785BT/AVH-X6850D/D	USB Direct Connection for Video and Music	CD-IU201V														
AVH-285BT/AVH-185D/D	USB Direct Connection for Video and Music	CD-IU201V														
AVH-3850D/D	AUX	3.5 mm AUX Cable														
DVH-885AVBT	USB Direct Connection for Music	CD-IU51														
	AUX	3.5 mm AUX Cable														
DVH-785AV	AUX	3.5 mm AUX Cable														
DVH-345UB	AUX	3.5 mm AUX Cable														
DEX-P99RS/DEH-80PRS/ DEH-9450UB	USB Direct Connection for Music	CD-IU51														
DEH-X9650BT/DEH-X9650D/ DEH-X8750BT/DEH-X7750U/ DEH-X850BT/DEH-X350U/ DEH-X4850D/D/DEH-X4850D/D/ DEH-X285U/FH-X575U/ MVH-X385BT/MVH-X285FD/ MVH-X185U/MXT-X186U	USB Direct Connection for Music	CD-IU51														
DEH-X1850UB/D/DEH-155MP/G/ FH-X385UB/DXT-X1869UB/ DXT-X186UB	AUX	3.5 mm AUX Cable														

\*Operations may vary depending on the software version of iPod and iPhone.  
 \*Depending on the generation or version of the iPod, some functions can not be operated.  
 \*Please contact Pioneer Support Center for more details regarding connection.

\*1. When an error occurs in connection with iPod and iPhone, switching ACC ON/OFF or reloading the iPod and iPhone may help recovery.  
 \*2. Version 2.0 or later software is required when operating the receiver to browse video.  
 \*3. When AppRadio Mode is in use, 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.  
 \*4. Media App Control and App Mode Available. You can enjoy music using apps installed in iPhone and iPod touch. In Media App Control and App Mode, operability of app on receiver's display is limited. Pioneer Receiver can play audio content from an iPod touch or iPhone with an app that outputs audio signals. Not every app, however, is compatible with Media App Control and App Mode.

### iPhone 5s, iPhone 5c, iPhone 5, iPhone 6, iPhone 6 Plus, 5th generation iPod touch, and 7th generation iPod nano

Model	Interface	Use with	iPhone		iPod touch	iPod nano
			iPhone 5	iPhone 5c, iPhone 5s	iPhone 6, iPhone 6 Plus	5th gen.
AVH-X8750BT	HDMI/USB Direct Connection for Video, Music and AppRadio Mode	CD-IH202 <sup>1</sup> *2				
	USB Direct Connection for Music	CD-IU52				
AVH-X850BT/AVH-X4850D/D/AVH-X285BT/AVH-X1850D/D/AVH-X785BT/AVH-X6850D/D	USB Direct Connection for Video, Music and AppRadio Mode USB	CD-IU52 <sup>2</sup>				
AVH-285BT/AVH-185D/D	USB Direct Connection for Music	CD-IU52				
DVH-885AVBT	USB Direct Connection for Music	CD-IU52				
AVH-3850D/D/ DVH-785AV/DVH-345UB	AUX	3.5 mm AUX Cable				
DEH-X9650BT/DEH-X9650D	USB Direct Connection for Music	CD-IU52				
DEH-X8750BT/DEH-X7750U/FH-X575U	USB Direct Connection for Music	CD-IU52				
DEH-X6850BT/DEH-X3850U/DEH-X4850BT/ DEH-X4850D/D/DEH-X285U/ MVH-X385BT/MVH-X285FD/MVH-X185U/ MXT-X386BT/MXT-X186U	USB Direct Connection for Music	CD-IU52				
DEX-P99RS/DEH-80PRS/DEH-9450UB/DEH-X1850UB/G/ DEH-155MP/G/FH-X385UB/DXT-X1869UB/DXT-X186UB	AUX	3.5 mm AUX Cable				

\*1. Requires Apple® Lightning Digital AV Adapter and Apple® Lightning to USB Cable (sold separately).  
 \*2. When AppRadio Mode and AppRadio Mode USB are in use, 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.  
 \*3. CarMediaPlayer App compatible with Bluetooth Wireless Connection.  
 \*4. Pioneer ARC App compatible with Bluetooth Wireless Connection.  
 \*5. USB Direct Control for Certain Android Phones is available (via MTP Mode). The connectivity depends on OS version, number of files stored on an Android Phone, etc.  
 \*6. Pioneer ARC App compatible (via AOA2.0 and the connectivity of AOA2.0 depends on OS version and apps).

### Connection Table for Android Devices with Pioneer Receivers

Model	Connection via	Smartphone Compatible				
		CD-AH200 <sup>1</sup>	CD-MU200 <sup>1</sup>	Bluetooth <sup>2</sup>	USB <sup>4</sup>	AUX
AVH-X8750BT						
AVH-X850BT/AVH-X2850BT/AVH-X7850BT						
AVH-X4850D/D/AVH-X1850D/D/AVH-X6850D/D						
AVH-285BT						
DVH-885AVBT						
AVH-185D/D/AVH-3850D/D/DVH-785AV/DVH-345UB						
DEH-X9650BT/DEH-X8750BT						
DEH-X6850BT/DEH-X4850BT/MVH-X385BT/MXT-X386BT						
DEH-X9650D/DEH-X7750U/FH-X575U						
DEH-X4850D/D/DEH-X3850U/DEH-X2850U/DEH-X1850UB/G/FH-X385UB/ MVH-X285FD/MVH-X185U/DXT-X1869UB/DXT-X186UB/MXT-X186U						
DEX-P99RS/DEH-80PRS/DEH-9450UB/DEH-155MP/G						

\*1. When AppRadio Mode and AppRadio Mode USB are in use, AppRadio App is available from Google Play. Please use in Internet connection situations. AppRadio App & Compatible Apps may not be available in some countries.  
 \*2. Audio is transmitted via A2DP (Advanced Audio Distribution Profile). Audio is controlled via AVRCP (Audio/Video Remote Control Profile) and limited accordingly.  
 \*3. CarMediaPlayer App compatible with Bluetooth Wireless Connection.  
 \*4. Pioneer ARC App compatible with Bluetooth Wireless Connection.  
 \*5. USB Direct Control for Certain Android Phones is available (via MTP Mode). The connectivity depends on OS version, number of files stored on an Android Phone, etc.  
 \*6. Pioneer ARC App compatible (via AOA2.0 and the connectivity of AOA2.0 depends on OS version and apps).

### 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)

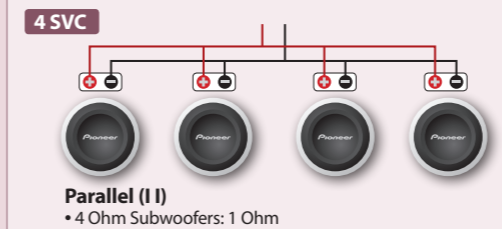
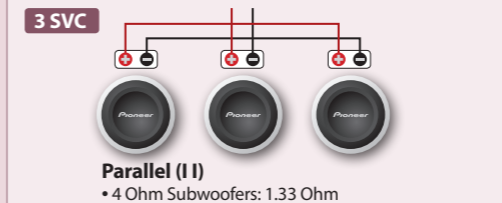
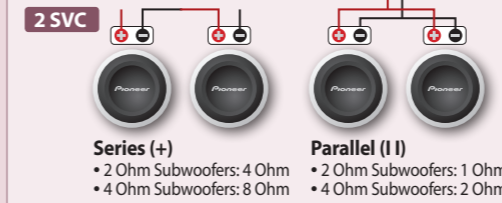
##### Connection Examples

Series and parallel connections apply to subwoofer(s).

##### Single Subwoofer Connection



##### Multiple Subwoofer Connection

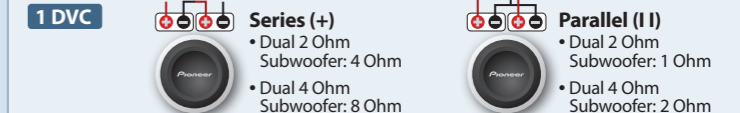


#### Dual Voice Coil (DVC)

##### Connection Examples

Series and parallel connections apply to subwoofer(s).

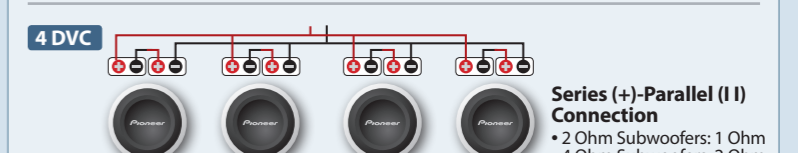
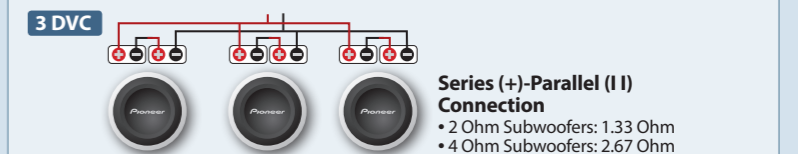
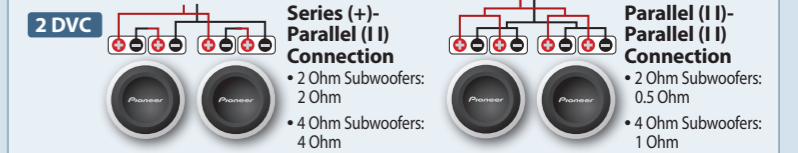
##### Single Subwoofer Connection



##### 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.

- All voice coils are in series connection
- Voice coil is in series connection, and subwoofers are in parallel connection
- Voice coil is in parallel connection, and subwoofers are in series connection
- All voice coils are in parallel connection

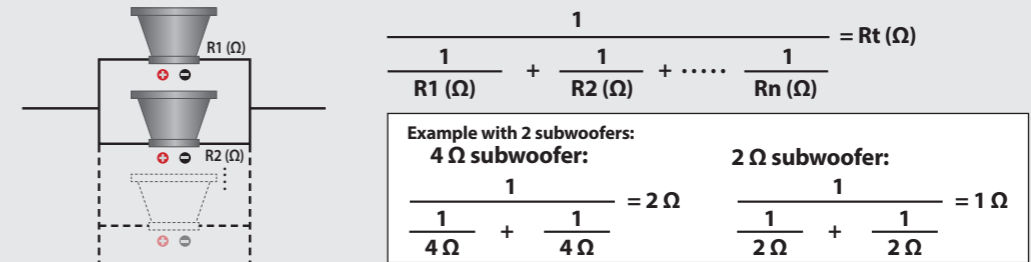


#### Calculating Impedance

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



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



Amplifier & Subwoofer Connection Chart

Voice Coil Connection	Connection Examples	
Single Voice Coil	4 Subwoofers as 1 Ω Mono	
	2 Subwoofers as 2 Ω Mono	
	2 Subwoofers as 1 Ω Mono	
Dual Voice Coil	1 Subwoofer as 2 Ω Mono	
	2 Subwoofers as 1 Ω Mono	
	2 Subwoofers as 4 Ω Mono	

Amplifiers Features Comparison

	PRS-A900	PRS-D800	GM-D9605	GM-D9604	GM-D9601	GM-D8604	GM-D8601	GM-D1004	GM-A6604	GM-A4604	GM-A5602	GM-A3602
Amplifier Class	Class FD	Class FD	Class-FD*	Class FD	Class D	Class FD	Class D	Class FD				
Current Feedback Amplifier	x											
Load Impedance Allowance (Ω)	2 to 8	2 to 8	2 to 8	1 to 8	1 to 8	1 to 8	1 to 8	2 to 8	2 to 8	2 to 8	2 to 8	2 to 8
Bridgeable	x	x	x*	x		x		x*	x	x	x	x
4-Layered Circuit Board		x										
L/R Independent Power Supply	x											
L/R Symmetric Layout Circuit	x											
Protection Control System			x	x	x	x	x					
MOSFET Output Section		x	x	x	x	x	x					
PWM Regulated MOSFET	x	x										
Balanced Isolator Input Circuit	x	x	x	x	x	x	x	x	x	x	x	x
High Grade Bipolar Transister	x											
RCA Inputs	4-Ch. (Gold-Plated)	2-Ch. (Gold-Plated)	6-Ch.	4-Ch.	2-Ch.	4-Ch.	2-Ch.	4-Ch.	4-Ch.	4-Ch.	2-Ch.	2-Ch.
RCA Outputs (Pass-Through)				x (A-Ch.)	x	x (A-Ch.)	x					
Speaker Level Input			x	x	x	x	x	x	x	x	x	x
Automatic Signal Sensing and Turn-On			x	x	x	x	x	x	x	x	x	x
Hi-Volt Input Level Control (400 mV to 6.5 V)	L/R independent	A/B independent										
Hi-Volt Input Level Control (300 mV to 6.5 V)								x	x	x	x	x
Hi-Volt Input Level Control (200 mV to 6.5 V)			x	x	x	x	x					
Block-Type Terminal	Power/Ground Terminals x** (Gold-Plated)		x**	x**	x**	x**	x**					
Speaker Terminal	Speaker Terminals x** (Gold-Plated)		x**	x**	x**	x**	x**					
Screw-Type Terminal	Power/Ground Terminals		x (Ground: Gold-Plated)						x	x	x	x
Speaker Terminal	Speaker Terminals		x (Gold-Plated)						x	x	x	x
Lock-Type Terminal	Power/Ground/ Speaker Terminals							x				
Removable Terminal/Settings Cover	x	x										
Crossover Type			Variable HPF*/LPF	Variable HPF/LPF	Variable LPF	Variable HPF/LPF	Variable LPF	LPF/HPF	A-Ch.: LPF/HPF B-Ch.: Variable LPF/HPF	A-Ch.: LPF/HPF B-Ch.: Variable LPF/HPF	Variable LPF	LPF
Crossover Frequency			40 Hz to 500 Hz	40 Hz to 500 Hz	40 Hz to 240 Hz	40 Hz to 500 Hz	40 Hz to 240 Hz	80 Hz	A-Ch.: 80 Hz B-Ch.: 40 Hz to 500 Hz	A-Ch.: 80 Hz B-Ch.: 40 Hz to 500 Hz	40 Hz to 500 Hz	80 Hz
Crossover Slope			-12 dB/oct. (A-/B-Ch.), -12/-24 dB/oct. (Subwoofer-Ch.)	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.
Bass Boost Frequency			50 Hz (Subwoofer-Ch.)	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz (B-Ch.)		50 Hz	
Bass Boost Level			0 dB to 18 dB (Subwoofer-Ch.)	0 dB to 18 dB	0 dB to 18 dB	0 dB to 18 dB	0 dB to 18 dB		0 dB to 12 dB (B-Ch.)		0/6/12 dB	
Bass Boost Remote			x (Subwoofer-Ch.)	x (B-Ch.)	x	x (B-Ch.)	x					

\*1. Class-FD output for A-ch. & B-ch. and Class-D output for subwoofer-ch. \*2. Bridgeable for A-ch. and B-ch. only. \*3. For the UC model only. See page 52 for details. \*4. 4 to 8-gauge \*5. 12 to 18-gauge \*6. 8 to 16-gauge \*7. HPF: For A-ch. and B-ch. only.  
Note: The "Class-FD" stands for "Full Range Class-D". Incorporating Pioneer-developed Class-D circuit, the Class-FD amplifiers deliver superior performance and sound quality.

Amplifier & Subwoofer Combination Chart

		Conventional Subwoofers												Shallow Subwoofers			
		Champion Series PRO			Champion Series						Champion Series			Shallow Subwoofers			
		TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311	TS-W304R	TS-W254R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2					
GM-D9605	Sub-ch.	2 Ω 600 W x 1	● (2 Ω)	—	■ (4 Ω) x 2pc. Para.	—	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	—	—	—	—
	4 Ω 350 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	—	—	■ (4 Ω)	—	—	■ (4 Ω)	—	—	—	—	—
GM-D9604	4-ch.	2 Ω 130 W x 4	● (2 Ω)	● (2 Ω)	■ (4 Ω) x 4pc. Para.	● (2 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.	—	—	—	—
	2-ch. (Bridge)	4 Ω 200 W x 4	● (2 Ω)	● (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 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	○ (4 Ω) x 2pc. Para.	—	—	—	—
GM-D8604	4-ch.	2 Ω 150 W x 4	● (2 Ω)	● (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 Ω) x 2pc. Para.	■ (4 Ω) x 2pc. Para.	○ (4 Ω) x 2pc. Para.	—	—	—	—
	2-ch. (Bridge)	4 Ω 100 W x 4	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	—	—	—	—
GM-D9601	1-ch.	2 Ω 1,200 W x 1	● (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.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	■ (4 Ω) x 4pc. Para.	—	—	—	—	—
	2 Ω 800 W x 1	—	—	■ (4 Ω) x 2pc. Para.	—	—	—	—	■ (4 Ω) x 2pc. Para.	—	—	—	—	—	—	—	—
GM-D8601	1-ch.	2 Ω 500 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	—	—	—	—	—	—	—	—	—	—	—	—	—
	4 Ω 300 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	—	—	—	—	—
GM-A6604	4-ch.	2 Ω 90 W x 4	● (2 Ω)	● (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 Ω) x 2pc. Para.	○ (4 Ω) x 2pc. Para.	—	—	—	—	—
	2-ch. (Bridge)	4 Ω 60 W x 4	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	—	—	—	—	—
GM-A4604	4-ch.	2 Ω 120 W x 2	● (2 Ω)	● (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 Ω) x 2pc. Para.	○ (4 Ω) x 2pc. Para.	—	—	—	—	—
	2-ch. (Bridge)	4 Ω 180 W x 2	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	—	—	—	—	—
GM-A5602	2-ch.	2 Ω 225 W x 2	● (2 Ω)	● (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 Ω) x 2pc. Para.	○ (4 Ω) x 2pc. Para.	—	—	—	—	—
	1-ch. (Bridge)	4 Ω 450 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	—	○ (8 Ω) x 2pc. Para.	—	—	—	—	—	—	—	—	—	—	—
GM-A3602	2-ch.	2 Ω 90 W x 2	● (2 Ω)	● (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 Ω) x 2pc. Para.	○ (4 Ω) x 2pc. Para.	—	—	—	—	—
	1-ch. (Bridge)	4 Ω 180 W x 1	○ (8 Ω) x 2pc. Para.	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	○ (8 Ω) x 2pc. Para.	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	■ (4 Ω)	○ (4 Ω)	—	—	—	—	—

Amplifiers Specifications

	PRS-A900	PRS-D800	GM-D9605	GM-D9604	GM-D9601
Number of Channels	4/3/2	2/1	5/4/3/2	4/3/2	Mono
Max. Wattage (4 Ω)	100 W x 4	250 W x 2	150 W x 4 (A-/B-Ch.)/700 W x 1 (Subwoofer-Ch.)	260 W x 4	1,000 W x 1
Max. Wattage (2 Ω)	—	—	200 W x 4 (A-/B-Ch.)/1,200 W x 1 (Subwoofer-Ch.)	400 W x 4	1,600 W x 1
Max. Wattage (1 Ω)	—	—	—	260 W x 4	2,400 W x 1
Max. Wattage Bridged (4 Ω)	200 W x 2	600 W x 1	400 W x 2*	800 W x 2	—
Wattage RMS (4 Ω <= 1% THD+N)	50 W x 4	125 W x 2	75 W x 4 (A-/B-Ch.)/350 W x 1 (Subwoofer-Ch.)	130 W x 4	500 W x 1
Wattage RMS (2 Ω <= 1% THD+N)	50 W x 4	150 W x 2	100 W x 4 (A-/B-Ch.)/600 W x 1 (Subwoofer-Ch.)	200 W x 4	800 W x 1
Wattage RMS (1 Ω <= 1% THD+N)	—	—	—	130 W x 4	1,200 W x 1
Wattage RMS Bridged (4 Ω)	100 W x 2	300 W x 1	200 W x 2*	400 W x 2	—
Frequency Response	10 Hz to 100 kHz	10 Hz to 30 kHz	10 Hz to 50 kHz (A-/B-Ch.)/10 Hz to 500 Hz (Subwoofer-Ch.)	10 Hz to 50 kHz	10 Hz to 240 Hz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.003 %	<0.004 %	<0.05 % (A-/B-Ch.)/1 kHz/Subwoofer-Ch.: 100 Hz)	<0.05 %	<0.5 % (100 Hz)
Signal-to-Noise Ratio (IHF-A Weighted)	>108 dB	>105 dB	>94 dB	>95 dB	>100 dB
Dimensions (W x H x D)	371 mm x 65 mm x 282 mm	255 mm x 50 mm x 104 mm	315 mm x 60 mm x 200 mm	315 mm x 60 mm x 200 mm	315 mm x 60 mm x 200 mm

	GM-D8604	GM-D8601	GM-D1004	GM-A6604	GM-A4604	GM-A5602	GM-A3602
Number of Channels	4/3/2	Mono	4/3**/2**	4/3/2	4/3/2	2/1	2/1
Max. Wattage (4 Ω)	200 W x 4	600 W x 1	100 W x 4	120 W x 4	80 W x 4	300 W x 2	120 W x 2
Max. Wattage (2 Ω)	300 W x 4	1,000 W x 1	100 W x 4	190 W x 4	120 W x 4	450 W x 2	200 W x 2
Max. Wattage (1 Ω)	250 W x 4	1,600 W x 1	—	—	—	—	—
Max. Wattage Bridged (4 Ω)	600 W x 2	—	200 W x 2**	360 W x 2	240 W x 2	900 W x 1	400 W x 1
Wattage RMS (4 Ω <= 1% THD+N)	100 W x 4	300 W x 1	45 W x 4	60 W x 4	40 W x 4	150 W x 2	60 W x 2
Wattage RMS (2 Ω <= 1% THD+N)	150 W x 4	500 W x 1	45 W x 4	90 W x 4	60 W x 4	225 W x 2	90 W x 2
Wattage RMS (1 Ω <= 1% THD+N)	125 W x 4	800 W x 1	—	—	—	—	—
Wattage RMS Bridged (4 Ω)	300 W x 2	—	90 W x 2**	180 W x 2	120 W x 2	450 W x 1	180 W x 1
Frequency Response	10 Hz to 50 kHz	10 Hz to 240 Hz	10 Hz to 40 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %	<0.5 % (100 Hz)	<0.05 %	<0.05 %	<0.05 %	<0.05 %	<0.05 %
Signal-to-Noise Ratio (IHF-A Weighted)	>95 dB	>100 dB	>90 dB	>95 dB	94 dB	>96 dB	>95 dB
Dimensions (W x H x D)	265 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm	181 mm x 38 mm x 64 mm	348 mm x 60 mm x 215 mm	318 mm x 60 mm x 215 mm	348 mm x 60 mm x 215 mm	238 mm x 60 mm x 180 mm

\* Bridgeable for A-ch. and B-ch. only. \*\* For the UC model only. See page 52 for details.



**Subwoofers Specifications**

	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Size	30 cm	30 cm	30 cm	25 cm	25 cm	30 cm
Max. Music Power (Nominal)	2,000 W (600 W)	1,400 W (400 W)	1,400 W (400 W)	1,200 W (350 W)	1,200 W (350 W)	1,000 W (300 W)
Frequency Response	20 Hz to 80 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz
Sensitivity (In Car/1 W)	96 dB	95 dB	95 dB	93 dB	93 dB	95 dB
Impedance	4 Ω x 2	4 Ω x 2	4 Ω	4 Ω x 2	4 Ω	4 Ω
Mounting Depth	176 mm	151 mm	151 mm	139 mm	139 mm	148 mm
Cut-Out Dimensions	ø283 mm	ø283 mm	ø283 mm	ø235 mm	ø235 mm	ø278 mm
Recommended Enclosure	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	18.4 liters to 35.4 liters	24.1 liters to 49.5 liters

	TS-W304R	TS-W254R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2	TS-WH500A
Size	30 cm	25 cm	30 cm	25 cm	20 cm	18 cm x 10 cm x 2
Max. Music Power (Nominal)	1,300 W (300 W)	1,100 W (250 W)	1,500 W (400 W)	1,200 W (300 W)	600 W (150 W)	150 W*1 (50 W**)
Frequency Response	20 Hz to 220 Hz	20 Hz to 220 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 200 Hz	20 Hz to 200 Hz
Sensitivity (In Car/1 W)	95 dB	93 dB	93 dB	91 dB	86 dB	98 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	2 Ω x 2	4 Ω
Mounting Depth	135 mm	127 mm	86 mm	78 mm	67 mm	—
Cut-Out Dimensions	ø283 mm	ø235 mm	ø298 mm	ø249 mm	ø179 mm	—
Recommended Enclosure	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters	4.2 liters to 14.2 liters	—

	TS-WX305T	TS-WX305B	TS-WX120A	TS-WX210A	TS-W252PRS
Size	30 cm	30 cm	20 cm x 13 cm	20 cm	25 cm
Max. Music Power (Nominal)	1,300 W (350 W)	1,300 W (350 W)	150 W*1 (50 W**)	150 W*1 (50 W**)	800 W (400 W)
Frequency Response	20 Hz to 125 Hz	20 Hz to 125 Hz	30 Hz to 160 Hz	37 Hz to 200 Hz	20 Hz to 2,400 Hz
Sensitivity (In Car/1 W)	97 dB	95 dB	98 dB	102 dB	84 dB
Impedance	4 Ω	4 Ω	—	—	4 Ω
Mounting Depth	—	—	—	—	178 mm
Cut-Out Dimensions	—	—	—	—	ø238 mm
Recommended Enclosure	—	—	—	—	28.3 liters

\*1. Maximum output power \*2. Nominal output power

**Speakers Specifications**

	Component Speakers			TS-D Series						
	TS-C172PRS	TS-C132PRS	TS-S062PRS	TS-D1730C	TS-D1330C	TS-D6902R	TS-D1702R	TS-D1602R	TS-D1302R	TS-D1002R
Size	17 cm 28 mm*1	13 cm 28 mm*1	66 mm	17 cm 23 mm*1	13 cm 23 mm*1	6" x 9"	17 cm	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	200 W (50 W)	150 W (30 W)	200 W (50 W)*2 60 W (15 W)*1	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	27 Hz to 44 kHz	37 Hz to 44 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	—	4,500 Hz (with -12 dB)	4,500 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*1	57.3 mm 13.4 mm*1	32 mm 42.2 mm*4	65 mm 13 mm*1	58 mm 13 mm*1	89 mm	64.5 mm	59 mm	57.3 mm	46.5 mm
Mounting Depth with Mount Adapter	16 cm: 55 mm	—	—	45 mm*5	—	—	—	—	—	—
Cut-Out Dimensions	ø142 mm	ø123 mm	ø64 mm ø69 mm*1	ø144 mm	ø121 mm	151 mm x 220 mm	ø139 mm	ø128 mm	ø121 mm	ø106 mm

\*1. Tweeter specification \*2. With back chamber, 800 Hz, -12 dB/oct. HPF \*3. Without back chamber, 400 Hz, -12 dB/oct. HPF \*4. With back chamber \*5. With 6" x 9" tweeter bracket

	TS-A Series												
	TS-A1606C	TS-A1306C	TS-A6996S	TS-A6986S	TS-A6976S	TS-A6966S	TS-A1686S	TS-A1676S	TS-A1376S	TS-A6886R	TS-A4676R	TS-A2013I	TS-A2503I
Size	16 cm 20 mm*	13 cm 20 mm*	6" x 9"	6" x 9"	6" x 9"	6" x 9"	16 cm	16 cm	13 cm	6" x 8"	4" x 6"	20 cm	25 cm
Max. Music Power (Nominal)	350 W (60 W)	300 W (50 W)	650 W (100 W)	600 W (100 W)	550 W (90 W)	420 W (60 W)	350 W (60 W)	320 W (50 W)	300 W (50 W)	350 W (60 W)	200 W (30 W)	500 W (80 W)	420 W (80 W)
Frequency Response	32 Hz to 43 kHz	42 Hz to 42 kHz	28 Hz to 38 kHz	27 Hz to 37 kHz	27 Hz to 24 kHz	28 Hz to 36 kHz	32 Hz to 38 kHz	32 Hz to 40 kHz	40 Hz to 39 kHz	28 Hz to 39 kHz	35 Hz to 42 kHz	25 Hz to 28 kHz	20 Hz to 31 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	93 dB	92 dB	92 dB	92 dB	91 dB	90 dB	89 dB	91 dB	88 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	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	71 mm	54 mm	44 mm	53 mm	61 mm	43 mm	89 mm	115 mm
Cut-Out Dimensions	ø144 mm	ø121 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	ø144 mm	ø128 mm	ø121 mm	133 mm x 191 mm	95 mm x 153 mm	ø186 mm	ø236 mm

\*1. Tweeter specification

	TS-R Series				TS-G Series						
	TS-R6950S	TS-R1750S	TS-R1650S	TS-R1350S	TS-G1605C	TS-G1645R	TS-G1345R	TS-G1045R	TS-G1615R	TS-G1315R	TS-G1015R
Size	6" x 9"	17 cm	16 cm	13 cm	16 cm 30 mm*1	16 cm	13 cm	10 cm	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	300 W (50 W)	250 W (40 W)	250 W (40 W)	250 W (35 W)	280 W (45 W)	250 W (40 W)	250 W (35 W)	210 W (30 W)	230 W (40 W)	230 W (35 W)	190 W (30 W)
Frequency Response	30 Hz to 35 kHz	36 Hz to 31 kHz	35 Hz to 31 kHz	44 Hz to 31 kHz	30 Hz to 28 kHz	26 Hz to 27 kHz	34 Hz to 25 kHz	38 Hz to 29 kHz	30 Hz to 25 kHz	33 Hz to 24 kHz	38 Hz to 26 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	90 dB	89 dB	89 dB	89 dB	86 dB	84 dB	90 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	4 Ω
Mounting Depth	67 mm	47 mm	40 mm	47 mm	39 mm	38 mm	44 mm	43 mm	39 mm	44 mm	43 mm
Cut-Out Dimensions	153 mm x 222 mm	ø137 mm	ø128 mm	ø111 mm	ø128 mm	ø128 mm	ø121 mm	ø106 mm	ø128 mm	ø121 mm	ø106 mm

\*1. Tweeter specification

	Champion Series			DXT-X1869UB & DXT-X186UB Speakers			MXT-X386BT & MXT-X186UI Speakers		
	TS-6975 V2	TS-6965 V2	TS-1675 V2	DXT-X1869UB	DXT-X186UB	MXT-X386BT	MXT-X186UI		
Size	6" x 9"	6" x 9"	16 cm	6" x 9"	16 cm	16 cm	16 cm		
Max. Music Power (Nominal)	500 W (80 W)	400 W (80 W)	300 W (50 W)	230 W (30 W)	200 W (25 W)	200 W (25 W)	200 W (25 W)		
Frequency Response	30 Hz to 25 kHz	30 Hz to 22 kHz	35 Hz to 20 kHz	28 Hz to 32 kHz	31 Hz to 16 kHz	31 Hz to 16 kHz	31 Hz to 16 kHz		
Sensitivity (1 W/1 m)	92 dB	93 dB	92 dB	88 dB	88 dB	88 dB	88 dB		
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω		
Mounting Depth	92 mm	84 mm	58 mm	66.3 mm	41 mm	41 mm	41 mm		
Cut-Out Dimensions	151 mm x 220 mm	151 mm x 220 mm	ø128 mm	153 mm x 222 mm	ø128 mm	ø128 mm	ø128 mm		

	Other Speakers									
	TS-F1634R	TS-F1034R	TS-CX900	TS-S250	TS-S20	TS-T110	TS-MR2040	TS-MR1640	TS-MR1600	
Size	16 cm	10 cm	6.6 cm	40 mm	20 mm	22 mm	20 cm	16 cm	16 cm	
Max. Music Power (Nominal)	200 W (25 W)	150 W (20 W)	80 W (20 W)	250 W (50 W)	200 W (50 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	6,000 Hz to 40 kHz	3,000 Hz*1/ 1,200 Hz*2 to 26 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	97 dB	92 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	
Mounting Depth	41 mm	43 mm	—	—	—	—	75 mm	56 mm	56 mm	
Cut-Out Dimensions	ø128 mm	ø102 mm	—	—	—	—	ø183 mm	ø127 mm	ø127 mm	

\*1. With network \*2. Without network

**Subwoofers Thiele/Small Parameters**

	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Nom.Dia	30 cm	30 cm	30 cm	25 cm	25 cm	30 cm
Qts	0.59	1.05	0.79	1.04	0.85	1.17
Qms	11.5	13.79	14.96	15.49	14.59	9.64
Qes	0.62	1.02	0.84	1.12	0.9	1.311
Resonance Frequency	35.0 Hz	43.0 Hz	42.0 Hz	46.0 Hz	45.0 Hz	45.0 Hz
Vas [Liters]	34.6	32.7	37.5	17.7	18.6	34.1
Vas [ft <sup>3</sup> ]	1.22	1.15	1.32	0.63	0.66	1.21
Vd [Liters]	0.72	0.56	0.42	0.35	0.33	0.56
Vd [ft <sup>3</sup> ]	2.54 E-02	1.98E-02	1.47E-02	1.25E-02	1.15E-02	1.97E-02
Sd [m <sup>2</sup> ]	5.20 E-02	5.20E-02	5.20E-02	3.50E-02	3.50E-02	5.06E-02
Sd [ft <sup>2</sup> ]	0.56	0.56	0.56	0.38	0.38	0.54
Revc	Dual 2.9 Ω	Dual 2.9 Ω	3.0 Ω	Dual 3.3 Ω	3.2 Ω	3.1 Ω
Levc (at 2,000 Hz)	5.99 mH (8 Ω) 1.53 mH (2 Ω)	4.85 mH (8 Ω) 1.23 mH (2 Ω)	2.87 mH	4.91 mH (8 Ω) 1.26 mH (2 Ω)	2.92 mH	1.29 mH
Xmax [mm]	13.8	10.8	8.0	10.1	9.3	11.0
Xmax [In]	0.54	0.4	0.3	0.3	0.4	0.4
Zmax	112.8 (8 Ω) 24.51 (2 Ω)	74.19 (8 Ω) 18.6 (2 Ω)	47.27	85.48 (8 Ω) 18.61 (2 Ω)	47.17	21.86
Bl	22.4 Tm (8 Ω) 11.2 Tm (2 Ω)	16.2 Tm (8 Ω) 8.2 Tm (2 Ω)	13.0 Tm	15.3 Tm (8 Ω) 7.7 Tm (2 Ω)	11.5 Tm	9.6 Tm
Rms	4.44 Ns/m	3.39 Ns/m	2.88 Ns/m	2.33 Ns/m	2.42 Ns/m	3.89 Ns/m
Mms	257 g	166 g	123 g	123 g	123 g	133 g
Cms	8.3 x 10 <sup>-5</sup> m/N	7.6 x 10 <sup>-5</sup> m/N	8.7 x 10 <sup>-5</sup> m/N	9.5 x 10 <sup>-5</sup> m/N	9.9 x 10 <sup>-5</sup> m/N	9.4 x 10 <sup>-5</sup> m/N
Mg. Wt.	2,800 g	2,100 g	2,100 g	1,700 g	1,700 g	1,240 g
Flux Density	8,712 Gauss	7,381 Gauss	6,926 Gauss	7,177 Gauss	6,813 Gauss	8,425 Gauss
Hag [mm]	10	10	10	10	10	10
Hag [In]	0.39	0.39	0.39	0.39	0.39	0.39
Hvc [mm]	37.6	31.6	26.0	30.2	28.6	32.0
Hvc [In]	1.48	1.24	1.02	1.19	1.13	1.26
VC. Diameter	55 mm	48 mm	48 mm	40 mm	40 mm	48 mm
Eff	0.23 %	0.23 %	0.29 %	0.16 %	0.17 %	0.23 %
S.P.L.	95 dB	95 dB	95 dB	93 dB	93 dB	95 dB
Nominal Power	600 W	400 W	400 W	350 W	350 W	300 W
M.M.P.	2,000 W	1,400 W	1,400 W	1,200 W	1,200 W	1,000 W
Sp. Displacement [Liter]	2.71	1.67	1.67	1.22	1.22	1.75
Sp. Displacement [ft <sup>3</sup> ]	0.095	0.059	0.059	0.043	0.043	0.061
Recom. Enclosure [Liter]	35.38	35.38	35.38	22.64	22.64	35.38
Recom. Enclosure [ft <sup>3</sup> ]	1.25	1.25	1.25	0.8	0.8	1.25
F <sub>0</sub> (in Cabinet)	49.2	55.8	55.7	61.6	60.2	60.2
Q <sub>0</sub> (in Cabinet)	0.83	1.25	1.09	1.28	1.13	1.64

	TS-W304R	TS-W254R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2	TS-W252PRS
Nom.Dia	30 cm	25 cm	30 cm	25 cm	20 cm	25 cm
Qts	0.700	0.62	0.61			

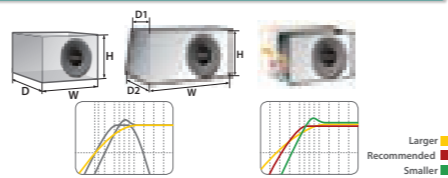
**Subwoofer Enclosures**

**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-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Enclosure Volume (l)	35.4	35.4	35.4	22.6	22.6	35.4
Center	35.4	35.4	35.4	22.6	22.6	35.4
Box Dimensions: W x H x D (mm)	396 x 314 x 396	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.	24.1	24.1	24.1	18.4	18.4	24.1
Max.	49.5	49.5	49.5	35.4	35.4	49.5

Recommended Enclosure Volumes and Dimensions*	TS-W304R	TS-W254R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Enclosure Volume (l)	35.4	22.6	22.6	17.0	14.2
Center	35.4	22.6	22.6	17.0	14.2
Box Dimensions: W x H x D (mm)	396 x 396 x 314	351 x 351 x 269	—	—	—
Box Dimensions: W x H x D1 x D2 (mm)	—	—	769 x 357 x 104 x 168	714 x 320 x 99 x 156	626 x 313 x 108 x 143
Min.	24.1	18.4	14.2	9.9	4.2
Max.	49.5	35.4	28.3	19.8	14.2

\* Measured externally. 19 mm MDF particle board recommended.

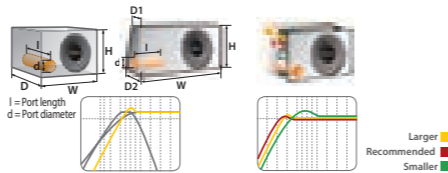
**VENTED ENCLOSURES (BASS REFLEX)**

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-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Enclosure Volume (l)	42.5	42.5	42.5	31.1	31.1	42.5
Center	42.5	42.5	42.5	31.1	31.1	42.5
Box Dimensions: W x H x D (mm)	461 x 373 x 338	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 152	ø76 x 165	ø76 x 152	ø76 x 178	ø76 x 127	ø76 x 127
Min.	35.4	35.4	35.4	25.5	25.5	35.4
Max.	56.6	56.6	56.6	42.5	42.5	56.6

Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W304R	TS-W254R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Enclosure Volume (l)	42.5	31.1	22.6	17.0	14.2
Center	42.5	31.1	22.6	17.0	14.2
Box Dimensions: W x H x D (mm)	461 x 373 x 338	396 x 353 x 314	—	—	—
Box Dimensions: W x H x D1 x D2 (mm)	—	—	769 x 357 x 104 x 168	714 x 320 x 99 x 156	626 x 313 x 108 x 143
Port Size: d x l (mm)	ø76 x 165	ø76 x 203	ø76 x 279	ø76 x 330	ø76 x 254
Min.	35.4	25.5	18.4	14.2	7.1
Max.	56.6	42.5	28.3	19.8	14.2

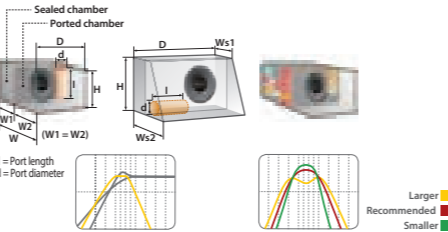
\* Measured externally. 19 mm MDF particle board recommended.

**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.



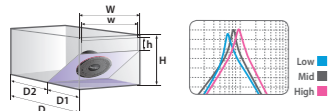
Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W304R	TS-W254R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Enclosure Volume (l)	25.5/25.5	17.0/17.0	17.0/17.0	12.7/12.7	11.3/11.3
Center (Sealed Chamber/Ported Chamber)	25.5/25.5	17.0/17.0	17.0/17.0	12.7/12.7	11.3/11.3
Box Dimensions: W x H x D (mm)	481 x 385 x 385	449 x 332 x 332	—	—	—
Box Dimensions: Ws1 x Ws2 x H x D (mm)	—	—	174 x 314 x 388 x 559	193 x 283 x 338 x 509	172 x 263 x 313 x 552
Port Size: d x l (mm)	ø76 x 114	ø76 x 165	ø76 x 127	ø76 x 114	ø76 x 165
Min. (Sealed Chamber/Ported Chamber)	19.8/19.8	12.7/12.7	14.2/14.2	9.9/9.9	7.1/7.1
Max. (Sealed Chamber/Ported Chamber)	31.1/31.1	22.6/22.6	22.6/22.6	17.0/17.0	11.3/11.3

**TURBO (High Output Bandpass)**

Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Enclosure Volume (l)	16/98	16/98	16/98	12/85	12/85	16/98
Low (Sealed Chamber/Ported Chamber)	16/98	16/98	16/98	12/85	12/85	16/98
Mid (Sealed Chamber/Ported Chamber)	16/88	16/88	16/88	12/75	12/75	16/88
High (Sealed Chamber/Ported Chamber)	16/78	16/78	16/78	12/65	12/65	16/78
Box Dimensions: W x H x D (mm)	438 x 488 x 638	438 x 488 x 638	438 x 488 x 638	411 x 478 x 586	411 x 478 x 586	438 x 488 x 638
Port Size: w x h (mm)	400 x 150	400 x 150	400 x 150	373 x 150	373 x 150	400 x 150

\* Measured externally. 19 mm MDF particle board recommended.

Enclosure for TURBO (High Output Bandpass)



**Symbols for Special Features**

**Display**

- Touch Panel Screen
- 7.0W** 7.0-inch Wide Screen
- 6.2W** 6.2-inch Wide Screen
- 3.5W** 3.5-inch Wide Screen
- 3.0W** 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 Compatible
- DVD-R/RW Compatible
- CD-R/RW Compatible
- H.264** H.264
- FLAC (Free Lossless Audio Codec) Audio
- MP3** MP3 (MPEG Audio Layer-3)
- WMA** WMA (Windows Media™ Audio)
- AAC** iTunes® AAC (Advanced Audio Coding)
- DivX** DivX® Digital Media
- Dolby® Digital Decoder

**Connectivity**

- Works with Apple CarPlay
- Made for iPod and iPhone Products
- Smartphone powered by Android Compatible\*
- AppRadioLIVE
- AppRadio Mode
- Media App Control
- App Mode
- Built-in MirrorLink™
- Built-in Bluetooth®
- Bluetooth Adapter Ready
- Siri Eyes Free Compatible
- SD/SDHC Memory Card Compatible
- AUX-In Connectivity (mini-jack)
- USB Direct Connection
- Dual USB Ports
- HDMI Input
- 1A High Current USB
- Back Up Camera Ready
- Pioneer TV Tuner Ready

**Audio**

- MIXTRAX** MIXTRAX
- MIXTRAX EZ** MIXTRAX EZ
- Works with Spotify®
- Hi-VOLT** Hi-Volt Preout
- RCA Preout
- Subwoofer Control
- 24-Bit DA Converter
- Auto EQ
- Dual Zone Audio/Video
- Supertuner® IID
- RDS** Radio Data System
- Shortwave Tuner
- MOSFET 50Wx4** MOSFET 50 W x 4
- DSP** Digital Signal Processor
- Specialized Audio Parts

**Amplifier**

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

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