

# clarion

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- "Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
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- Licensed by BBE Sound, Inc. under one or more of the following US patents : 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
- All other trademarks are the property of their respective owners.
- All units in this catalogue are primarily intended for installation in passenger cars. Use in lorries, tractors, off-road vehicles, construction machinery, boats (except Marine models), and other special-purpose vehicles or on motorcycles is not recommended.
- It may not be possible to resume iPod Video playback. Whenever ACC is turned OFF/ON, playback will commence from the beginning of the file.
- iPod nano 1G and iPod 5G simple control mode is not supported. (CD type Source units)
- To use iPod nano 1G and iPod 5G, it is necessary to first connect using optional Connection Cable for iPod, then set Analog/Digital switch to Analog. (VZ509A/FZ709A/FZ409A)
- There's no guarantee that all units in this catalogue play CCCD (Copy Control CD), Hybrid SACD (Super Audio CD), CD-R/RW and DVD±R/RW.
- USB digital media streaming models. This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft. Windows Media and the Windows logo are trademarks or registered of Microsoft Corporation in the United States and/or other countries.
- Please see the Clarion website for iPod models that can be connected.
- The driver should be aware and abide by the laws of the country when operating any multimedia/navigational equipment.
- LCD panels use the latest high-tech components and boast an effective pixel rate of 99.99%. However, be aware that 0.01% or less of the pixels may be defective.
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- Please see the Clarion website for iPod models that can be connected.
- WMDRM 1.0 compatible models: this product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft Corporation.

**WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.**

# clarion

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*Distributor*







# clarion

|       |        |           |
|-------|--------|-----------|
|       | Mobile |           |
| Human | Music  | Interface |
|       | Media  |           |

Clarion HMI

Open The Future. Make It Real.

Anybody can imagine — but without willpower and technique, it never becomes reality.

At Clarion, we specialise in visualising the most innovative, user-friendly concepts for in-vehicle entertainment, turning them into tangible solutions that seamlessly link your drive to the outside world.

Interfacing humans with music and media in a mobile environment — with Clarion H.M.I., you are the ultimate destination.



ITALDESIGN-GIUGIARO  
"QUARANTA", the Clarion H.M.I. concept car created by Italian designer GIUGIARO, one of the world's top industrial design firms.



# MULTIMEDIA

## Maximum Multimedia for Safety and Satisfaction

Clarion's multimedia line-up offers a wide selection that will keep your passengers entertained even on long drives. Superior connectivity, compatibility with the latest digital media, and advanced technologies to assure a high quality experience through superb sound and pristine images, are ready to offer you a higher level of digitally driven satisfaction.

### Exceptional entertainment

2-zone entertainment lets rear and front seat passengers enjoy different content. iPod Video support enables in-car viewing of the same visual content you carry around with you. And with DivX® compatibility, you'll be able to enjoy a wider variety of compressed video programmes such as movies.

### Superb sound

Sculpt the sound to match your preference or environment. Beat EQ's 3-band parametric equaliser, 24 bit D/A converter to maximise DVD and CD source quality, BBE® MP to improve the sound of compressed digital audio, and more, all contribute to the creation of richer sound with more impact.

### Link mobile satisfaction

Select models are Bluetooth® enabled, either with built-in wireless technology or via optional adapter. Talk on the phone in hands-free safety as you drive. Enjoy streaming music from your mobile phone. Clarion provides seamless access to your daily communications and entertainment.

### More choices to match your style

From basic audiovisual centre unit capabilities to comprehensive compatibility and connectivity, Clarion offers a diverse line-up to meet the unique needs of your automotive lifestyle.

|                    | VX709A              | VZ709A              | VZ509A              | VX400A              | VZ400A              | VX409A          | VZ409A          |
|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------|-----------------|
| iPod               | Via USB             | Via USB             | Via USB             | Via USB             | Via USB             | CCUIPOD2        | CCUIPOD2        |
| iPod video         | CCA723 / CCA748     | CCA723 / CCA748     | CCA723 / CCA748     | CCA723 / CCA748     | CCA723 / CCA748     | CCUIPOD2        | CCUIPOD2        |
| USB memory         | Rear USB connection | Rear USB connection | Rear USB connection | Rear USB connection | Rear USB connection | —               | —               |
| AUX input          | 1 AV                | 1 AV                | 2 AV                | 2 AV                | 2 AV                | 1 AV            | 1 AV            |
| Bluetooth®         | Built-in Bluetooth  | Built-in Bluetooth  | Optional BLT370     | Built-in Bluetooth  | Built-in Bluetooth  | Optional BLT370 | Optional BLT370 |
| Rear vision        | •                   | •                   | •                   | •                   | •                   | —               | —               |
| OEM remote control | •                   | •                   | •                   | •                   | •                   | •               | •               |



## Entertainment-intensive with intuitive interface



### VX709A 2-DIN DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL



iPod and iPod Video direct control



Built-in Bluetooth for hands-free calling and music streaming



Motorised sloping control & Disc slot

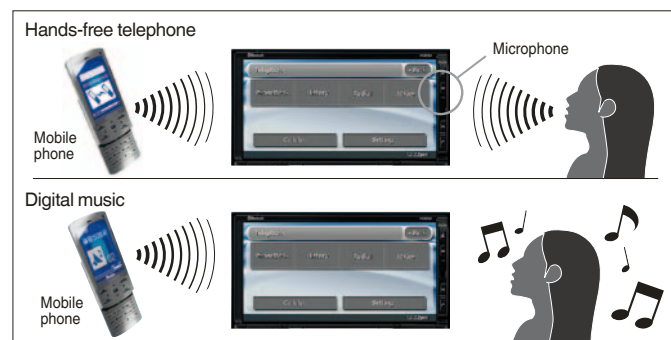
### Function display screens for full system information

Clarion's in-dash, 7-inch monitor is the source for all media and function information, allowing quick access to a host of features with a simple touch of the on-screen menu. The menu is laid out in an easy-to-understand fashion by displaying all actions related to the selected media source.



### Built-in Bluetooth® interface

Bluetooth allows you to wirelessly connect with today's most common devices, such as mobile phones, PDAs and MP3 Players. Providing access to most popular Bluetooth profiles including A2DP, AVRCP and HFP, OPP, the VX709A will transfer your favourite digital music or mobile phone audio to your vehicle's audio system, in addition to providing safe hands-free telephone conversations.



## Entertainment functions that accommodate the latest in digital media

### USB direct connection and control of even the newest iPods

By connecting an iPod to the source unit's USB input using the USB cable provided with your iPod, it will be possible to control the iPod. The same USB terminal can also be used to connect a USB memory device with digital music files stored on it.

\* To connect an iPod, please use the USB cable included with your iPod.  
\* For video playback, optional CCA723 / CCA748 cable required.  
\* Please see our website for iPod models that can be connected.  
\* iPod ABC Search and Simple Control are not available.

### DivX® compatible

DivX is a common media language that delivers a pure digital experience. DivX enriched video files deliver superior video quality and enables storage of more information on a single disk. DivX compatibility in a main unit means that DivX encoded files burned using a PC can be viewed and enjoyed in your car, just like you'd be able to at home.

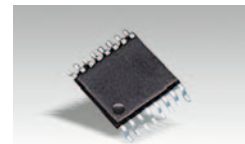
### 2-Zone entertainment

Clarion's 2-Zone entertainment system divides the in-car spatial environment into discrete front and rear zones. As a result, it is possible for the front and rear seat passengers to enjoy different entertainment sources without interfering with each other.

## Advanced technologies to maximise the sound potential of your car

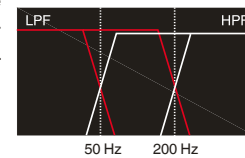
### 24-bit D/A converter for superb sound reproduction

The digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment. That is why Clarion's 24-bit D/A (Digital-to-Analogue) converter over-samples the digital signal to recreate the natural nuances and expressions lost during the sound reproduction process.



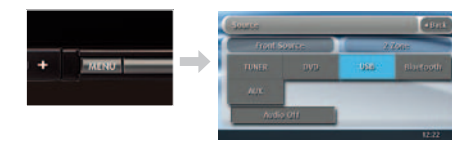
### Built-in High Pass/Low Pass Filter

The internal High Pass and Low Pass Filters allow you to set the frequency range of the audio signal that's output to each channel to best match the acoustic characteristics of the front and rear speakers and the subwoofer.

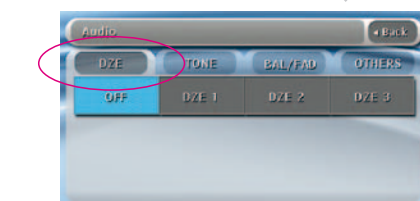


### Digital Z-Enhancer to easily match the sound to your car's acoustics

This function employs digital signal processing with three preset equalisation curves each adjustable to LOW, MID and HIGH. You can choose from 9 custom EQ curves tailored to specific speaker types.



Touch the [DZE] key to display the DZE tab screen. Then choose the sound effect you want, [DZE 1], [DZE 2], [DZE 3], or to go back to the default setting, choose [OFF].



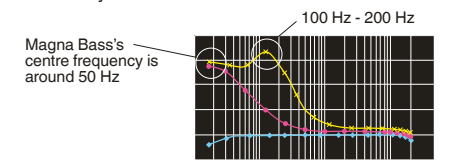
[DZE 1] is suitable for a car's original speakers

[DZE 2] is suitable for commercially sold separate speakers.

[DZE 3] is suitable for commercially sold coaxial speakers

### MAGNA BASS EX for dynamic bass enhancement

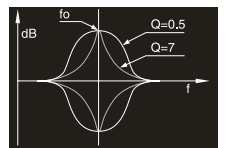
Now, Clarion's new MAGNA BASS EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz - lower than that of ordinary loudness circuits at around 100 Hz, to provide extra low-frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.



★ Bass boost/M-Bass On ● M-BASS EX On ○ Normal

### 3-band parametric equaliser

The entire sound spectrum is separated into high, medium and low ranges. The level of each can be adjusted separately. Customise the sound to suit your taste and your car.



## Superior connectivity for flexible expandability and upgradability

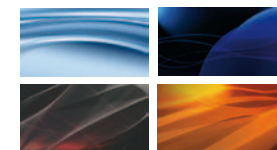
### 6-channel audio pre-out

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for Subwoofers, the full set of RCA line outputs allows upgrading to a full-scale AV system with plenty of support for future system expansions.

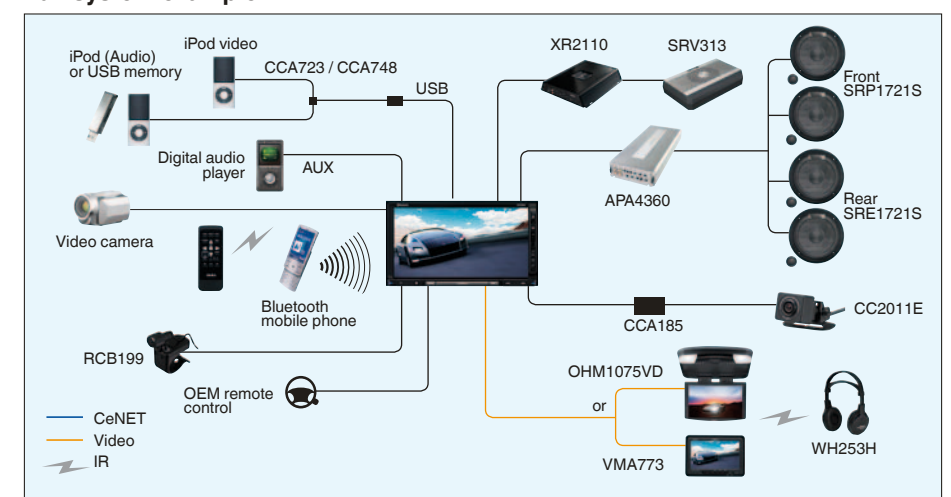


### 4 preset wallpaper designs

Background patterns of the audio & video sources can be customised to suit your taste or your car's colour scheme.



### Full system example



|        |      |           |                            |                                 |             |               |            |           |   |            |                               |               |                    |            |                         |                   |           |       |                   |         |       |             |       |                    |
|--------|------|-----------|----------------------------|---------------------------------|-------------|---------------|------------|-----------|---|------------|-------------------------------|---------------|--------------------|------------|-------------------------|-------------------|-----------|-------|-------------------|---------|-------|-------------|-------|--------------------|
|        | DivX | DVD VIDEO | COMPACT DISC DIGITAL VIDEO | COMPACT DISC DIGITAL AUDIO TEXT | MP3/WMA/AAC | DOLBY DIGITAL | FM/AM      | Bluetooth | Made for iPod                                       | USB        | 2-ZONE Entertainment          | 2V/6ch Output | Rear Vision Camera | AUX Input  | Subwoofer level control | Digital Equalizer | M-BASS EX | 24bit | PEO Parametric EQ | LPF/HPF | 50Wx4 | TOUCH PANEL | CeNET | OEM Remote Control |
| VX709A | ●    | ●         | ●                          | ●                               | ●           | ●             | 24FM, 16AM | Built-in  | Optional USB cable (Audio / Video): CCA723 / CCA748 | Rear input | Front and back seats to enjoy | ●             | ●                  | 1 AV(Rear) | ●                       | ●                 | ●         | ●     | 3-band EQ         | ●       | ●     | ●           | ●     | ●                  |



# Stylish sophistication and functional beauty



MULTIMEDIA

MULTIMEDIA

## VZ709A DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL



### Seamless enjoyment of iPod® with emulated touch-panel display

The intelligent VZ709A displays the same controls as your iPod on its touch screen. The realistic graphics make operation intuitive. Anybody who can use an iPod can use this control screen so there's no need to learn anything new. Everything including ALBUM/SONGS/PLAYLIST selection is at the tip of your finger.

### USB direct connection and control of even the newest iPods

By connecting an iPod to the source unit's USB input using the USB cable provided with your iPod, it will be possible to control the iPod. The same USB terminal can also be used to connect a USB memory device with digital music files stored on it.

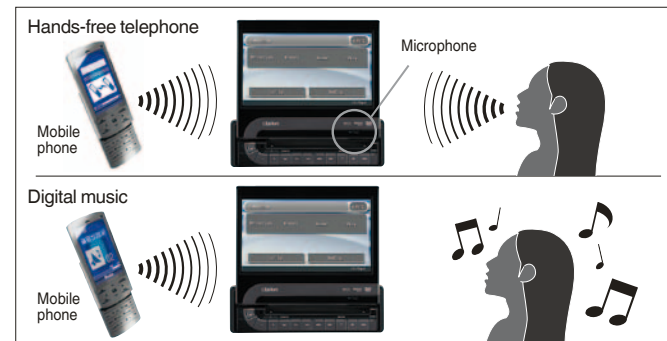
- [MENU]** Displays the iPod Menu screen to search tracks to be played. Various list screens can be displayed from the iPod Menu screen.
- [Operation display]** Displays the play/pause status, track no., play mode, song title/artist name/album title, progress indicator, play time and remaining time.
- [Options]** Displays the Options screen. You can specify repeat and shuffle play modes from this screen.
- [<<], [>>]** Use to perform track selection. Touch and hold to enable fast-forward or fast-backward.
- [VIDEO] / [MUSIC]** Toggles the operation mode between Video and Audio modes. (Displayed only when an iPod with video features is connected.)
- [>||]** Use to control playback and pause.

\* To connect an iPod, please use the USB cable included with your iPod. \* For video playback, optional CCA723 / CCA748 cable required. \* Please see our website for iPod models that can be connected. \* iPod ABC Search and Simple Control are not available.

## Flexible connectivity, ample compatibility, custom selectability

### Built-in Bluetooth® interface

Bluetooth allows you to wirelessly connect with today's most common devices, such as mobile phones, PDAs and MP3 Players. Providing access to most popular Bluetooth profiles including A2DP, AVRCP and HFP, OPP, the VX709A will transfer your favourite digital music or mobile phone audio to your vehicle's audio system, in addition to providing safe hands-free telephone conversations.



### Compatible with DVD, DVD-Video and DivX®

Since the built-in DVD drive offers playback of DVD-Video format DVDs, you can play and enjoy a wide variety of store bought and home made DVDs. And by offering support of DivX enriched video files, it lets you enjoy the higher quality and superior compression afforded by DivX technology. Now DivX encoded files burned using a PC can be viewed in your car, just like you'd be able to at home.

### AUX input with sensitivity adjustment

The auxiliary input allows you to listen to external sound sources through the car's audio system. And since it allows the sensitivity level to be changed, you can adjust it to the level that is optimal for the input device you are using. This minimises the need to adjust the volume level every time you switch to a new sound source.

### 2-Zone entertainment

Clarion's 2-Zone entertainment system divides the in-car spatial environment into discrete front and rear zones. As a result, it is possible for the front and rear seat passengers to enjoy different entertainment sources without interfering with each other.

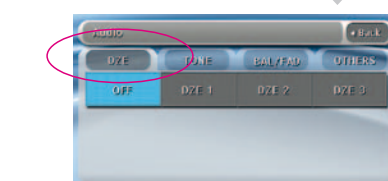
## Powerful set of audio technologies designed to let you design your own sound

### Digital Z-Enhancer to customise your sound

This function employs digital signal processing with three preset equalisation curves each adjustable to LOW, MID and HIGH. You can choose from 9 custom EQ curves tailored to specific speaker types.



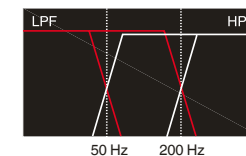
Touch the [DZE] key to display the DZE tab screen. Then choose the sound effect you want, [DZE 1], [DZE 2], [DZE 3], or to go back to the default setting, choose [OFF].



[DZE 1] is suitable for a car's original speakers  
 [DZE 2] is suitable for commercially sold separate speakers.  
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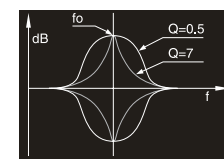
### Built-in HPF/LPF to match your speakers

The internal High Pass and Low Pass Filters allow you to set the frequency range of the audio signal that's output to each channel to best match the acoustic characteristics of the front and rear speakers and the subwoofer.



### 3-band parametric equaliser

The entire sound spectrum is separated into high, medium and low ranges. The level of each can be adjusted separately. Customise the sound to suit your taste and your car.

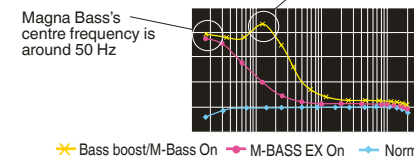


### Non-fader subwoofer control

The dedicated non-fader subwoofer output has a level control to give you more control over your system's bass performance. This even includes a low-pass crossover which, when selected, turns the rear channel RCA line level outputs into dedicated subwoofer outputs.

### MAGNA BASS EX for dynamic bass enhancement

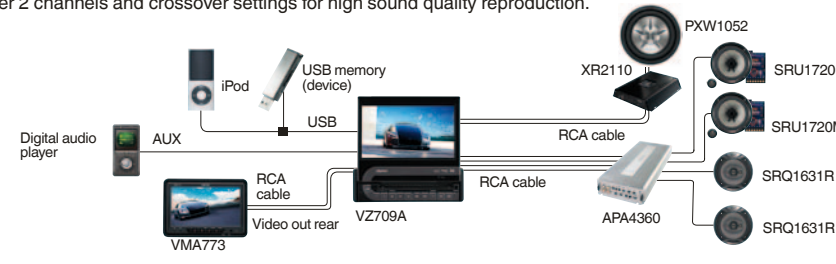
Now, Clarion's new MAGNA BASS EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz - lower than that of ordinary loudness circuits at around 100 Hz, to provide extra low-frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.



## System that's able to keep growing along with your changing needs

### 6-channel audio pre-out

Equipped with 6 channel outputs for Front 2 channels + Rear 2 channels + Subwoofer 2 channels and crossover settings for high sound quality reproduction.



### Rear vision camera via RCA input helps confirm what's behind you

The RCA input enables you to smoothly connect a rear vision camera to display the area behind your vehicle on your onboard TV monitor. The increased view from the driver's seat makes driving safer in vehicles in which it is hard to see out the back, or at times when seeing what's behind you is difficult.



|        |      |           |                            |                                 |             |               |            |           |                                      |            |                               |               |                    |            |                         |                  |           |       |     |         |                  |             |       |           |
|--------|------|-----------|----------------------------|---------------------------------|-------------|---------------|------------|-----------|--------------------------------------|------------|-------------------------------|---------------|--------------------|------------|-------------------------|------------------|-----------|-------|-----|---------|------------------|-------------|-------|-----------|
|        | DivX | DVD VIDEO | COMPACT DISC DIGITAL VIDEO | COMPACT DISC DIGITAL AUDIO TEXT | MP3/WMA/AAC | DOLBY DIGITAL | FM/AM      | Bluetooth | Made for iPod                        | USB        | 2-ZONE ENTERTAINMENT          | 2V/6ch OUTPUT | Rear Vision Camera | AUX INPUT  | Subwoofer level control | Digital ENHANCER | M-BASS EX | 24bit | PEO | LPF/HPF | 50Wx4 HIGH POWER | TOUCH PANEL | CoNET | OEM Ready |
| VZ709A | •    | •         | •                          | •                               | •           | •             | 24FM, 16AM | Built-in  | USB (Audio); CCA723 / CCA748 (Video) | Rear input | Front and back seats to enjoy | •             | •                  | 1AV (Rear) | •                       | •                | •         | •     | •   | •       | •                | •           | •     | •         |



Streamlined with a touch of intelligence



MULTIMEDIA

MULTIMEDIA

**Comprehensive technologies put you in touch with the latest entertainment**

**Digital media ready (DivX®)**

DivX is a common media language that delivers a pure digital experience, Clarion has provided DivX playback on most AV products since 2008. DivX enriched video files deliver superior video quality and allow more information on a single disk. Once again Clarion delivers the features you expect.

**Wide-ranging format compatibility**

Enjoy a vast selection of movies and music with support of DVD, DivX, as well as MP3, WMA and iTunes AAC data stored on CD or DVD discs.

**2-Zone entertainment**

This separates the in-car environment into two discrete zones, allowing rear seat passengers to enjoy a DVD movie or iPod Video while the front seat passengers enjoy their favourite radio station or music from a USB memory device.

\* USB and iPod can not be played back at the same time.



**USB direct connection and control of even the newest iPods**

Just connect the USB cable that is included with your iPod to the VZ509A's rear USB input to control your iPod. Using an optional CCA723 / CCA748 cable will even let you watch iPod Video on the screen. The same USB terminal can also be used to connect a USB memory device with digital music files stored on it.

\* To connect an iPod, please use the USB cable provided with your iPod.  
\* For video playback, optional CCA723 / CCA748 cable required.  
\* Please see our website for iPod models that can be connected.



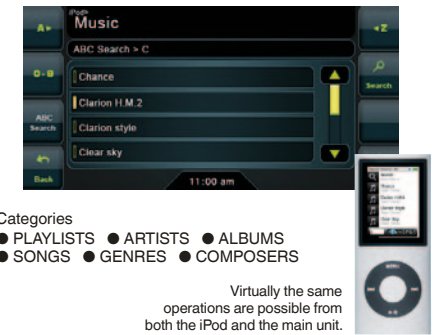
**Subwoofer volume control**

For added control, Clarion allows you to manage your sound system's subwoofer output level directly from the main unit. This control functions separately from the volume control for increased functionality.

**iPod control including iPod ABC search**

Just connect the USB cable that's included with your iPod to the VZ509A's USB input and you get complete control of your iPod including genre/album/song title browsing, complete with iPod ABC Search convenience. The functions of iPod's control wheel are emulated on the multimedia station's control dial, so virtually the same operations are possible from both the iPod or the multimedia station.

iPod ABC search  
Press and hold the [DISP] button (1 sec.).



Categories  
● PLAYLISTS ● ARTISTS ● ALBUMS  
● SONGS ● GENRES ● COMPOSERS

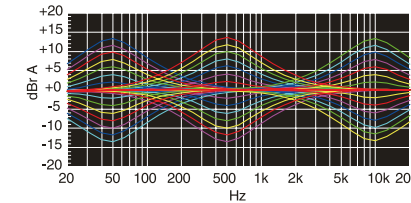
Virtually the same operations are possible from both the iPod and the main unit.

**Leading-edge audio-acoustical technologies deliver unrivalled sound performance**

**Beat EQ for user customisable sound**

In addition to providing 3 preset equalisation patterns — BASS BOOST, IMPACT, and EXCITE — Clarion's Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern. Depending on your mood and the type of music, you can tune the sound exactly to your liking for a more fulfilling listening experience.

Audio Precision (Bass Midrange Treble)



**24-bit D/A converter for superb sound reproduction**

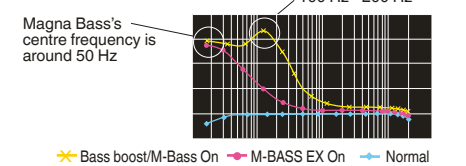
The digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment. That is why Clarion's 24-bit D/A (Digital-to-Analogue) converter over-samples the digital signal to recreate the natural nuances and expressions lost during the sound reproduction process.

**Built-in High Pass Filter & Low Pass Filter**

The internal High Pass and Low Pass filters allow you to set the frequency range of the audio signal that's output to each channel to best match the acoustic characteristics of the front and rear speakers and the subwoofer.

**MAGNA BASS EX for dynamic bass resonance**

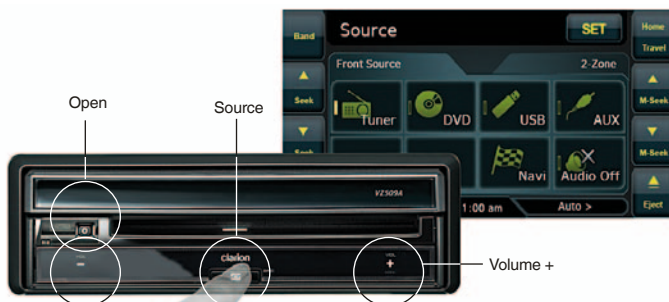
Now, Clarion's new MAGNA BASS EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz —lower than that of ordinary loudness circuits at around 100 Hz, to provide extra low-frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.



**VZ509A  
DVD MULTIMEDIA STATION WITH  
7-INCH TOUCH PANEL CONTROL**



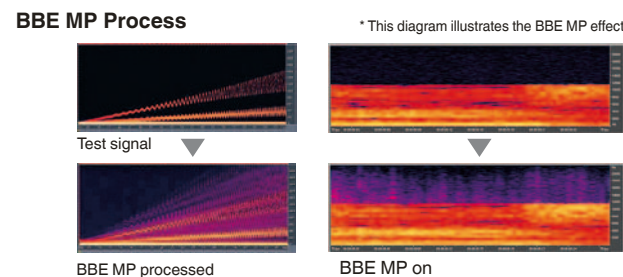
**Comprehensive and Multifunctional GUI (Graphical User Interface)**



With a vast majority of functions controllable from the VZ509A touch panel, there are only 4 physical buttons. Operation is streamlined, simplified, and beautifully enhanced with the high-resolution on-screen display.

**BBE® MP for better sounding MP3/WMA/AAC files**

BBE MP (Minimised Polynomial Non-Linear Saturation) process improves digitally compressed sound such as MP3/WMA/AAC by restoring the harmonics that are lost through compression, thereby reproducing the warmth, details and nuances that you would otherwise miss.

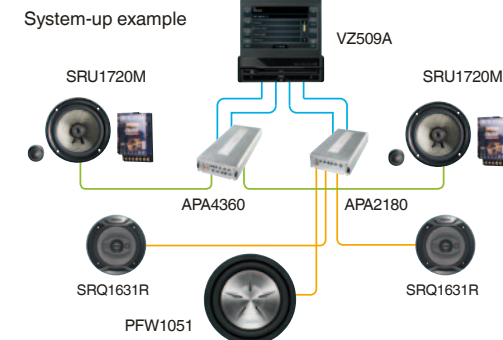


\* This diagram illustrates the BBE MP effect  
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**Open-ended connectivity enables flexible system expansion and upgrading**

**6-channel audio pre-out**

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for Subwoofers, the full set of RCA line outputs allows upgrading to a full-scale AV system with plenty of support for future system expansions.



|        |      |           |                            |                                 |             |               |              |                 |                                     |            |                               |               |                    |             |        |                         |               |               |        |         |                    |             |     |
|--------|------|-----------|----------------------------|---------------------------------|-------------|---------------|--------------|-----------------|-------------------------------------|------------|-------------------------------|---------------|--------------------|-------------|--------|-------------------------|---------------|---------------|--------|---------|--------------------|-------------|-----|
|        | DivX | DVD VIDEO | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO TEXT | MP3/WMA/AAC | DOLBY DIGITAL | FM/AM        | Bluetooth       | Made for iPod                       | USB        | 2-ZONE ENTERTAINMENT          | 2V/6ch OUTPUT | Rear Vision Camera | AUX INPUT   | BBE MP | Subwoofer level control | MAGNA BASS EX | 24bit DIGITAL | BeatEQ | LPX/HPF | 50W x 4 HIGH POWER | TOUCH PANEL | OEM |
| VZ509A | •    | •         | •                          | •                               | •           | •             | 18 FM, 12 AM | Optional BLT370 | USB (Audio) CCA723 / CCA748 (Video) | Rear input | Front and back seats to enjoy | •             | •                  | 2 AV (Rear) | •      | •                       | •             | •             | •      | •       | •                  | •           | •   |



## Extensive media integration and ingenuity

### VX400A 2-DIN DVD MULTIMEDIA STATION WITH 6.5-INCH TOUCH PANEL CONTROL



### VZ400A DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL



iPod and iPod Video direct control



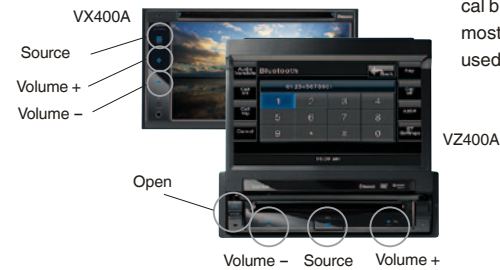
USB connector supports playback of MP3/WMA files



Built-in Bluetooth for hands-free calling and music streaming

#### Touch panel controlled GUI

The GUI (Graphical User Interface) shows large icons that are highly visible and easily recognisable at a glance. And thanks to the touch panel screen, accessing each function is as intuitive as touching its icon. This very straightforward system lets the driver keep his attention on the road, and enables front seat passengers to use any desired function without the need to "learn" anything. What's more, since the vast majority of functions are controllable from the touch panel, there are only 4 / 3 physical buttons on the unit for the most basic and commonly-used functions.



The rest is handled by the touch panel graphical interface. operation is beautifully enhanced by the high-resolution on-screen display.

#### A touch of innovation to seamlessly access your favourite entertainment

##### Superior iPod® and iPhone™ connectivity

USB connection\* enables complete control of your iPod including video playback. Also "Works with iPhone" certified to bring its communication and entertainment capabilities into your car.

\* To connect an iPod, please use the USB cable provided with your iPod.  
\* For video playback, optional CCA723 / CCA748 cable required.  
\* Please see our website for iPod models that can be connected.

##### Built-in Bluetooth® hands-free calling

With Bluetooth built-in, you can wirelessly connect your Bluetooth capable mobile phone to listen to calls through your car's audio system. HFP/OPP/A2DP/AVRCP protocols are supported.

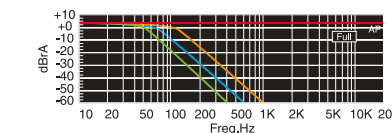
##### Rear USB WMA/MP3 file playback

The rear USB terminal supports WMA/MP3 file playback so you can connect a USB memory device and listen to music files that are stored on it. It's an easy way to enjoy in your car the same music files you listen to on your PC or portable audio.

#### Advanced audio technologies to bring exceptional sound to your car

##### Low-Pass Filter for subwoofer

Switching on the Low-Pass Filter (LPF) will send only the low frequency range through specified outputs to ensure superb performance with a connected subwoofer. A must if you have or plan to add a subwoofer to your system.



##### 24-bit D/A converter for superb sound reproduction

The digital realm is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment. That is why Clarion's 24-bit D/A (Digital-to-Analogue) converter over-samples the digital signal to recreate the natural nuances and expressions lost during the sound reproduction process.

#### Full range of connectors make it easy to upgrade and expand your system

##### 6-channel / 2-volt RCA output with subwoofer control

With 3 sets of RCA outputs, you are free to add external power amplifiers to create a more powerful, sophisticated audio system. Also, independent volume control is enabled for the subwoofer so you can adjust the level of bass output to your liking at any time, regardless of the output level of the other channels.



##### 2 AV AUX inputs / CCD input

VX400A/VZ400A is equipped with two RCA jacks for AV AUX input. In addition to being able to hook-up an external video source for viewing in your car, the inputs also accept video signals from Clarion's rear vision CCD camera which lets you see the area behind your car for safer driving and parking.

|        | DVD VIDEO | COMPACT DISC DIGITAL AUDIO TEXT | MP3/WMA | DOLBY DIGITAL | FM/AM        | Bluetooth | Made for iPod Works with iPhone        | USB  | 2V/6ch OUTPUT | Rear AV Output | Rear Vision Camera | AUX INPUT    | Subwoofer level control | 24bit D/A CONVERTER | LPF | 40W x 4 HIGH POWER | OVGA Color LCD Monitor | TOUCH PANEL | OEM Remote ready |
|--------|-----------|---------------------------------|---------|---------------|--------------|-----------|--|------|---------------|----------------|--------------------|--------------|-------------------------|---------------------|-----|--------------------|------------------------|-------------|------------------|
| VZ400A | ●         | ●                               | ●       | ●             | 36 FM, 12 AM | Built-in  | USB (Audio) or CCA723 / CCA748 (Video) | Rear | ●             | ●              | ●                  | Front / Rear | ●                       | ●                   | ●   | ●                  | 7-inch                 | ●           | ●                |
| VX400A | ●         | ●                               | ●       | ●             | 36 FM, 12 AM | Built-in  | USB (Audio) or CCA723 / CCA748 (Video) | Rear | ●             | ●              | ●                  | Front / Rear | ●                       | ●                   | ●   | ●                  | 6.5-inch               | ●           | ●                |



Easily access your essential entertainment



### VX409A

2-DIN DVD MULTIMEDIA STATION WITH 6.5-INCH TOUCH PANEL CONTROL



### VZ409A

DVD MULTIMEDIA STATION WITH 7-INCH TOUCH PANEL CONTROL

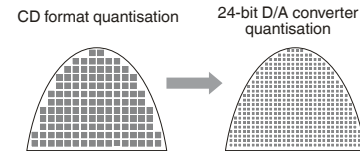


Seamless iPod entertainment on your car audio console

## High-quality technologies maximise the audio and visual capabilities

### 24-bit D/A converter for superb sound reproduction

Fully enjoy the sonic impact of DVD movie soundtracks. 24-bit technology actually oversamples the digital signal, providing excellent results that just weren't possible with older 16-bit systems.



### Broad access to DVD/CD and other digital media

The large LCD features an intuitive graphical user interface for operation of your iPod, CD and DVD playback, including full access to DVD menus. The QVGA LCD screen offers high resolution viewing for DVDs as well as or AUX connected sources.



### AUX input and rear monitor output

The multimedia station has AUX inputs for Video and Audio (L/R) so you can connect and enjoy an external source such as a camcorder. And since there is also a Rear monitor output connector, you can entertain your rear passengers with various audio visual content including signals being received through the AUX inputs.



## Wireless and wired connectivity plus a whole lot more

### Bluetooth® ready with BLT370

Hands-free conversations (HSP / HFP) on Bluetooth ready mobile phones, promote safe driving. This is possible via wireless connection of the phones to the vehicle audio systems. With the A2DP, Advanced Audio Distribution Profile, you can enjoy music reproduction from many new mobile phones or portable media players and control them via AVRCP (Audio Video Remote Control Profile).



### 6-channel audio pre-out

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for Subwoofers, the full set of RCA line outputs allows integration into a wide range of potential systems, and is ready to support future system expansions.

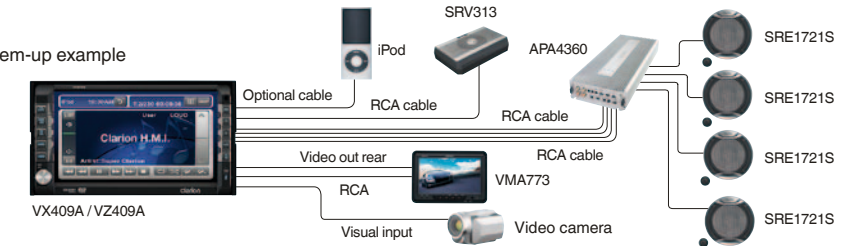


### Smart rotary volume control

Much more ergonomic and intuitive than buttons, this control lets you adjust the volume with analogue type flexibility. It's just another way Clarion helps you keep your eyes on the road while keeping your ears entertained.



### System-up example



## Encapsulating mobile entertainment desire into a single DIN chassis.

As the available space in the vehicle's interior diminishes, Clarion offers a creative solution for mobile entertainment. By incorporating DVD video playback and audio playback of MP3 and WMA music files, Clarion has maximised the available space in the dash. When partnered up with headrest monitors or an overhead monitor, it's the ultimate rear seat entertainment centre. Simply put, let Clarion entertain you.



### VB476

DVD/CD/VCD/MP3/WMA RECEIVER



### Ecstasy in the audio video domain

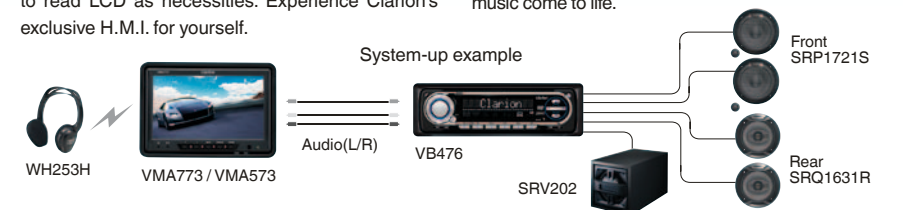
Adding a Clarion digital monitor will mesh the clarity of sound and the sharpness of video. Further enhance the experience with Clarion's array of amplification and sound reproducers. Getting there has never been so much fun. By supporting the various audio formats and video playback, Clarion ensures everybody along for the ride will be entertained. -- And for those instances when your media isn't on a disc, just plug right into the Auxiliary Inputs on the unit. -- Tranquility in the car... PRICELESS!

### Combining man and machine

It's not just a cliché, it's a philosophy. -- Clarion believes that form and functionality should be as one. That's why we include easy to access volume controls, positive reflection buttons and an easy to read LCD as necessities. Experience Clarion's exclusive H.M.I. for yourself.

### Can't get enough music

With the DVD capabilities, play 100's of songs on a single DVD disc and throw away all those cumbersome cases. Enjoy high fidelity music with our 24-bit digital to analogue converter that makes your music come to life.



|        | DVD VIDEO | DTS DIGITAL OUT | COMPACT DISC DIGITAL VIDEO | COMPACT DISC DIGITAL AUDIO | MP3/WMA | DOLBY DIGITAL | FM/AM        | Bluetooth       | Made for iPod     | 2-ZONE Entertainment | 4V/6ch OUTPUT | 2V/6ch OUTPUT | Rear AV Output | AUX Input  | 2 video line-outs | Subwoofer level control | 24bit DIGITAL CONVERTER | 40Wx4 HIGH POWER | 45Wx4 HIGH POWER | QVGA Color LCD Monitor | FLIP DOWN CONSOLE | DCP | OEM Ready |
|--------|-----------|-----------------|----------------------------|----------------------------|---------|---------------|--------------|-----------------|-------------------|----------------------|---------------|---------------|----------------|------------|-------------------|-------------------------|-------------------------|------------------|------------------|------------------------|-------------------|-----|-----------|
| VX409A | ●         | —               | —                          | ●                          | ●       | ●             | 18 FM, 6 AM  | Optional BLT370 | Optional CCUIPOD2 | —                    | ●             | —             | ●              | 1 AV(Rear) | —                 | ●                       | ●                       | ●                | —                | 6.5-inch               | —                 | —   | ●         |
| VZ409A | ●         | —               | —                          | ●                          | ●       | ●             | 18 FM, 6 AM  | Optional BLT370 | Optional CCUIPOD2 | —                    | ●             | —             | ●              | 1 AV(Rear) | —                 | ●                       | ●                       | ●                | —                | 7-inch                 | —                 | —   | ●         |
| VB476  | ●         | ●               | ●                          | —                          | ●       | ●             | 18 FM, 12 AM | —               | —                 | ●                    | —             | ●             | —              | 2-channel  | ●                 | ●                       | ●                       | —                | ●                | —                      | ●                 | —   | —         |



## Enjoy home theatre presence in your car

Offering a variety of overhead monitors ranging from 8-inch to 10.2-inch, with built-in DivX certified DVD players and wireless headphone transmitters, Clarion can make even your long journeys a pleasure-filled experience.



### OHM1075VD / OHM875VD FEATURES

- Universal slim profile
- MPEG 1/2/4, MP3 and WMA playback
- Adjustable display modes: Wide/Normal
- Infrared remote control with on Screen display
- 2 Audio/Video Inputs for external devices
- 1 Audio/video output for multiple monitor applications
- Built-in dome light
- Includes 2 head phones for OHM1075VD, 1 headphone for OHM875VD



### OHM875VD 8-INCH OVERHEAD ENTERTAINMENT DIGITAL MONITOR



### OHM1075VD 10.2-INCH OVERHEAD ENTERTAINMENT DIGITAL MONITOR

• The LCD panel uses the latest high-tech components and boasts an effective pixel rate of 99.99%. However, be aware that 0.01% or less of the pixels may be defective.

• There is no guarantee that all units in this catalogue can play COCD (Copy Control CD), Hybrid SACD (Super Audio CD), CD-R/RW and DVD±R/RW.

### "In flight" entertainment for back seat passengers

Clarion also offers a selection of compact monitors that can be installed into the back of the headrest or used as stand-alones, to keep passengers entertained from A to Z and everywhere between.



### VMA773 7-INCH/16:9 HEADREST/ STAND-ALONE MONITOR

- Ultra compact housing for easy headrest installation (192.7 (W) x 133.5 (H) x 32.5 (D) mm)
- Dimensions: 177.8 (W) x 118.5 (H) x 27.5 (D) mm



### VMA773 / VMA573 FEATURES

- 2 AV inputs (line-out from pigtail and minijack input on the front panel)
- Dual channel IR audio output transmitter for WH253H
- Headrest mounting bracket included
- Minijack headphone output

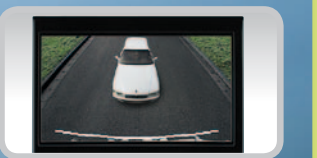


### VMA573 5.6-INCH/16:9 HEADREST/ STAND-ALONE MONITOR

- Ultra compact housing for easy headrest installation (160.8 (W) x 111.8 (H) x 32.5 (D) mm)
- Dimensions: 150 (W) x 101 (H) x 27 (D) mm

## Made for safer driving Rear vision CCD camera system

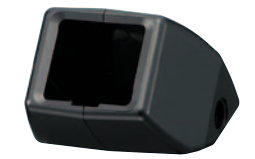
Clarion makes your drive more enjoyable, and safer. Take the guesswork out of reversing into tight spaces. Drive and park with confidence instead.



The increased view from the driver's seat makes driving safer in vehicles in which it is hard to see out the back



### CC2011E ULTRA COMPACT COLOUR CCD CAMERA (MIRROR IMAGE)



### PQE033 FINISHING CAMERA COVER FOR CC2011E

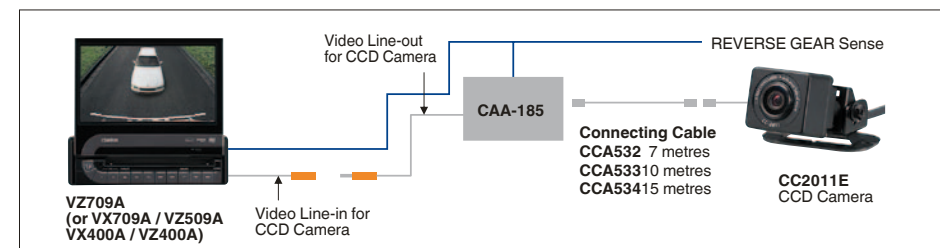
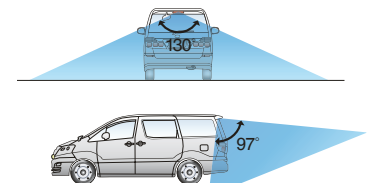
### CCA532 (7m) CCA533 (10m) CCA534 (15m) CAMERA CABLES FOR CC2011E

- Connecting cables for compact camera



### CAA185 POWER BOX FOR CCD CAMERA

- Video line-out with reverse gear connection for MAX686BT, VRX786BT, VRX586USB, VX709A, VZ709A, VZ509A, VX400A, VZ400A
- NTSC video line-out for all other LCD with NTSC input
- 12V compatible



### ACCESSORIES

#### VA700 VIDEO DISTRIBUTION AMPLIFIER

- 1 gain control
- 1 video input
- 7 buffered 75 ohm video outputs
- Stable video signal for up to 7 LCD monitors



#### FM200 FM MODULATOR

- 2-channel audio input
- On/Off switch
- Volume level control
- FM reception frequency: 88.7MHz/89.1MHz



#### WH143/WH143H/ WH253H WIRELESS HEADPHONE SYSTEMS

- WH143H: IR wireless headphone
- WH253H: Dual channel IR wireless headphone





# MAIN UNITS

## Stimulate your senses in style

Clarion's expertise in in-vehicle audio and acoustical technologies enables the development of next-generation solutions that offer a new level of satisfaction. From superior sound performance to seamless integration with the newest media, Clarion main units bring major benefits into your car, at high speed.



### CZ Series concept — "Starburst" style

CZ500A/CZ200A/CZ100A are characterised by the "starburst" control button array, appearing prominently on the front panel. These buttons are grouped to offer intuitive and direct operation along with the large, blue-illuminated rotary volume control, and also play a major part in giving the series its new look. CZ Series: The new star on the block.



### FB Series concept — Solid wave

FB276BT/FB286BTB are also mechanism-free, linking to enjoyment through its SD card slot, as well as built-in Bluetooth® wireless connection. From the solid look and feel of the edge-lit control panel to the simplicity of the central volume control, these source units provide an H.M.I. that is in tune with today's users. FB Series: Linked to you.

### 2-DIN solution — Big on convenience

If your car accepts 2-DIN installation, the CX609A or DUZ386MP could be the solution that fits your needs. Both feature a centre-positioned volume control and large buttons for easy operation, taking advantage of the larger surface area allowed by the 2-DIN configuration.

### FZ Series concept — Less is more

FZ709A/FZ409A feature a mechanism-free design, without any disc drives or other moving parts, for superior resistance to shocks and vibrations. The H.M.I. features an OEL (Organic Electro Luminescence) display that delivers graphics as smooth as silk with a simple icon capacitive touch zone providing intuitive and easy operation. FZ Series: Minimalism at its best.

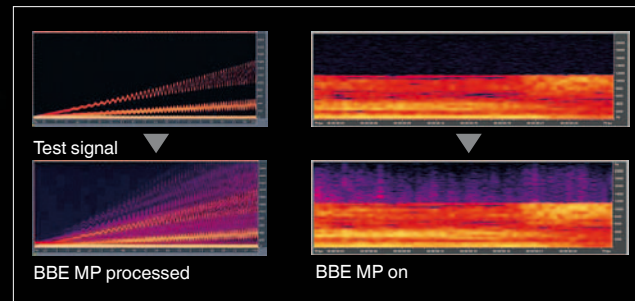


### Superb sound

Sculpt the sound to match your preference or environment. Beat EQ's 3-band parametric equaliser, 24-bit D/A converter to maximise DVD and CD source quality, BBE® MP to improve the sound of compressed digital audio, and more, all contribute to the creation of richer sound with more impact.

#### • BBE MP Process

\* This diagram illustrates the BBE MP effect



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• Licensed by BBE Sound, Inc. under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

### Superior iPod® and iPhone™ connectivity

Just connect\* your iPod to the main unit's front (CZ309A) or rear (CZ500A/DXZ786USB/DXZ586USB/FZ709A/FZ409A/CZ200A/CZ609A/DUZ386MP) USB terminal to get direct control. For FZ709A/FZ409A/CX609A this includes "ABC Search" and "Simple Control" functions. Additionally, the CZ500A/CZ200A have been designed to connect to iPhone and has been certified as "Works with iPhone" to integrate its communication and entertainment capabilities into your car system.

\* To connect iPod, please use the cable included with your iPod.  
\* Please visit the Clarion website "iPod Connecting List" for iPod models that can be connected

Made for iPod

Works with iPhone

Made for iPod

CZ500A

CZ200A

DXZ786USB

DXZ586USB

CZ309A

FZ709A

FZ409A

CX609A

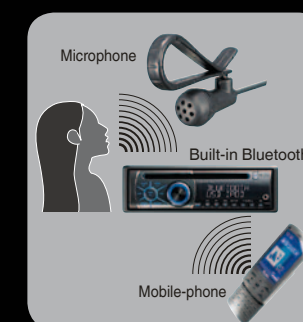
DUZ386MP

### Bluetooth®

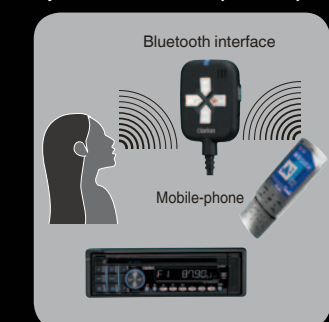
#### Bluetooth® compatibility

Connect with various devices such as mobile phones, PDAs and MP3 Players via the built-in wireless Bluetooth interface (CZ500A/FZ709A/FB286BTB/FB276BT/CX609A) or through the optional BLT370 (DXZ786USB/DXZ586USB/FZ409A/CZ309A/CZ200A/CZ100A/DUZ386MP/DUB276MP/DUB276MPW). CZ500A/FZ709A support HSP/HFP profiles for hands-free, A2DP/AVRCP for audio streaming, plus FZ709A also supports PBAP for phonebook access. CX609A supports HFP/OPP for hands-free and phonebook access and A2DP/AVRCP for audio streaming. FB286BTB/FB276BT support HFP for hands-free and A2DP/AVRCP for audio streaming. The optional BLT370 supports HSP/HFP/A2DP/AVRCP.

#### Built-in Bluetooth



#### Optional Bluetooth (BLT370)





## COMPREHENSIVE CONNECTIVITY

Simple connection and integration of your iPod® or iPhone™. Bluetooth® for safe hands-free calling and audio streaming. USB and AUX connections to access music on portable devices. Together these create an in-car environment where you're assured of seamless enjoyment of the music you love.

### Hands-free operation for optimum driving safety



## CZ500A

BLUETOOTH CD/USB/MP3/WMA RECEIVER

Hands-free microphone included



Built-in Bluetooth hands-free and audio streaming



Superior iPod and iPhone connectivity



Front auxiliary input for connection of portable audio player or other equipment

### Built-in Bluetooth® interface

Connect with various devices such as mobile phones, PDAs and MP3 Players via the CZ500A's built-in wireless Bluetooth interface. Supports popular Bluetooth profiles such as A2DP/AVRCP for audio streaming, HSP/HFP for hands-free operation, and phone book access is also available. So you can easily communicate and wirelessly stream your favourite digital music to your vehicle's audio system. A wired microphone is also supplied for a clear hands-free conversation.

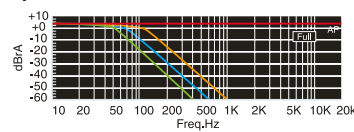
### Rear USB for cable-linked MP3/WMA playback

The USB input on the rear of the unit can be used to connect a USB memory stick that contains MP3 and WMA music files. It's an easy way to share music files between your car and your PC.



### Low Pass Filter for subwoofer

Switching on the Low Pass Filter (LPF) will send only the low frequency range through specified outputs to ensure superb performance with a connected subwoofer. If you have or plan to add a subwoofer to your system.



### 6-channel audio pre-out

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for subwoofers, the full set of RCA line outputs allows integration into a wide range of potential systems, and is ready to support future system expansions.



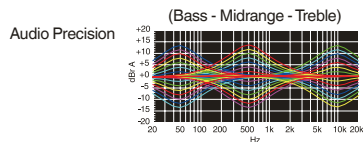
### Superior iPod® and iPhone™ connectivity

Just connect the USB cable to get direct and complete control of your iPod. Additionally, the center unit has been designed to connect to iPhone and has been certified as "Works with iPhone" to integrate its communication and entertainment capabilities into your car system.



### Beat EQ for user customisable sound

In addition to providing 3 preset equalisation patterns — BASS BOOST, IMPACT, and EXCITE — Clarion's Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern. You can tune the sound to your liking, depending on the category of music, for a more fulfilling listening experience.



## Brilliant convergence of the various digital media and superb sound quality



## DXZ786USB

CD/USB/MP3/WMA/AAC RECEIVER WITH CeNET CONTROL



USB for direct iPod control



6-volt / 6-channel audio pre-out

## Seamless enjoyment of everyday sources in your car audio environment

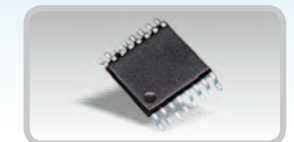


## DXZ586USB

CD/USB/MP3/WMA/AAC RECEIVER WITH CeNET CONTROL



USB for direct iPod control



24 bit D/A converter

< DXZ786USB / DXZ586USB Technology >

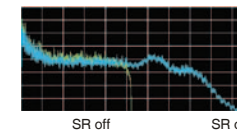


### SLIDETRAK control

Clarion takes H.M.I. to yet another level with the introduction of SLIDETRAK. With a simple swipe of the fingertip, it provides precise control of the key features on the main unit.

### Sound Restorer

Hear your music the way it was meant to be heard. Clarion's Sound Restorer recreates the high frequency information that is lost during compression. The result is clear and detailed sound.



### Digital time alignment with 3-way crossover (DXZ786USB)

Digital time alignment digitally delays the sound from each speaker so that the sounds emanating from them reach the listener at the same time. The 3-way crossover separates the audio spectrum into different bands to optimise each speaker's frequency response and minimise phase cancellation.



### Digital Z-Enhancer

By using a digital equaliser, there is more flexibility in tailoring your music to sound the way you want it. The Digital Z-Enhancer employs digital signal processing offering three preset equalisation curves each adjustable to LOW, MID and HIGH. You can choose from 9 custom EQ curves, each tailored to specific speaker type.

|           | COMPACT DISC DIGITAL AUDIO TEXT | MP3/WMA | MP3/WMA/AAC | FM/AM | Bluetooth  | Made for iPod | Works with iPhone | USB  | 4V/6ch OUTPUT | 6V/6ch OUTPUT | AUX INPUT | Subwoofer level control | DIGITAL SIGNAL PROCESSOR | 24bit | BeatEQ | P.E.O. PROTECTIVE EQUIPMENT ORGANIZATION | LPF | LPX/HFP | SRR Sound Restorer | MOS-FET POWER AMP | 53Wx4 CLASS POWER | 50Wx4 CLASS POWER | Integral Rotary Volume | SLOPE CONSOLE | FLIP DOWN CONSOLE | High Visibility LCD | 728c | CEC | DCP | CeNET | OEM |   |   |
|-----------|---------------------------------|---------|-------------|-------|------------|---------------|-------------------|------|---------------|---------------|-----------|-------------------------|--------------------------|-------|--------|--|-----|---------|--------------------|-------------------|-------------------|-------------------|------------------------|---------------|-------------------|---------------------|------|-----|-----|-------|-----|---|---|
| CZ500A    | ●                               | —       | ●           | —     | 18 FM/6 AM | Built-in      | USB (Audio)       | Rear | ●             | —             | Front     | ●                       | —                        | —     | —      | —  | —   | —       | —                  | —                 | —                 | —                 | ●                      | —             | —                 | —                   | —    | —   | —   | —     | —   | — |   |
| DXZ786USB | —                               | ●       | —           | ●     | 18 FM/6 AM | BLT370        | USB (Audio)       | —    | —             | ●             | Rear      | ●                       | ●                        | ●     | —      | —  | —   | —       | —                  | ●                 | ●                 | ●                 | —                      | —             | —                 | —                   | —    | —   | —   | —     | —   | — | — |
| DXZ586USB | —                               | ●       | —           | ●     | 18 FM/6 AM | BLT370        | USB (Audio)       | —    | —             | ●             | Rear      | ●                       | ●                        | ●     | —      | —  | —   | —       | —                  | ●                 | ●                 | ●                 | —                      | —             | —                 | —                   | —    | —   | —   | —     | —   | — | — |



## A NEW WORLD WHERE LESS IS MORE

FZ Series and FB Series feature a mechanism-free design, without any disc drives or other moving parts, for superior resistance to shocks and vibrations. What's more, their innovative concepts bring a variety of digital media into play, letting you access the entertainment and communications you enjoy every day, in your car.



### Unique concept for cutting-edge style

FZ709A/FZ409A are equipped with an OEL (Organic Electro Luminescence) display that delivers smooth graphics with an icon capacitive touch zone providing intuitive and easy operation. Since only relevant button icons appear, it provides a stylishly minimalist look, while expanding the realm of digital entertainment with extensive compatibility.

### Built-in Bluetooth®

FZ and FB Series main units offer a minimalist design, yet they strive to maximise usefulness and entertainment value. If you have a Bluetooth enabled phone, count on FZ709A, FB286BTB or FB276BT for the safety of Bluetooth hands-free wireless communication, as well as enjoying music streamed from phone to car audio system.

### Intuitive design and H.M.I.

The FZ709A and FZ409A simplify operation so that now it is just a matter of touching a few iconised illuminated capacitive sensor buttons. This is an example of the intuitive H.M.I. design that minimises the number of buttons while maximising functionality. Since only relevant button icons appear for the task at hand, button-hunting is eliminated and access is more direct and responsive.

### Connectivity and Functions

Offers connectivity with iPod for audio as well as video\*, so in addition to enjoying tunes while you drive, you can entertain your passengers with video content. (FZ709A / FZ409A)



\* To connect an iPod, please use the USB cable included with your iPod.  
\* Please see our website for iPod models that can be connected.

## Comprehensive and PC-friendliness plus mechanism-free reliability

FB276BT/  
FB286BTB  
BLUETOOTH SD/MP3 RECEIVER



Hands-free microphone included



### Comprehensive connectivity and compatibility

Today's car audio enthusiast demands digital music connectivity, and Clarion facilitates this by delivering options for these state-of-the-art requirements. With a built-in Bluetooth receiver, this unit allows you to enjoy hands-free calling with your Bluetooth enabled mobile phone. Furthermore, a built-in SD slot makes playing music from external sources easy, while utilising an ID3-TAG display simplifies the usage of MP3 music files.



SD card slot for direct MP3 music file playback (up to 2 GB)



FB286BTB

### Auxiliary input

The FB276BT/286BTB includes an auxiliary RCA input which makes hooking up any wired audio source a snap. Full stereo sound is just a quick connection away.

### 728-variable colour illuminated design

The FB276BT/286BTB allows precise adjustment of the RGB levels to cosmetically harmonise the look of the set with the illumination colour of the vehicle's dashboard and instrument panel. Choose from 728 colour possibilities.

MAIN UNITS

## Comprehensive linkage in minimalist design

FZ709A  
BLUETOOTH USB/  
MP3/WMA/AAC RECEIVER



Hands-free microphone included

### Built-in Bluetooth (FZ709A)

Connect with various devices such as mobile phones, PDAs and MP3 Players via the unit's built-in wireless Bluetooth interface. Supported Bluetooth profiles include A2DP/AVRCP for audio streaming and HFP/OPP for hands-free operation. A wired microphone is supplied for crystal clear telephony.



Mobile phone



## Solid quality with mechanism-free reliability



Made for iPod  
USB  
FZ409A  
USB/MP3/WMA/AAC RECEIVER

Option

### Direct USB iPod® control

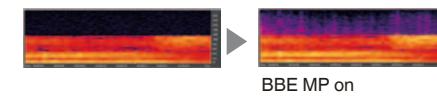
No adapter box required. Just connect the USB cable that's included with your iPod to the Clarion source unit's rear USB input and you get complete control of your iPod including genre/album/song title search using the iPod's control wheel, with high quality sound reproduction through the car speakers. The same connection can also be used to play back audio files stored on USB memory.

\* To connect an iPod, please use the USB cable included with your iPod.  
\* Please see our website for iPod models that can be connected.

### BBE® MP (Minimised Polynomial Non-Linear Saturation)

By restoring the harmonics that are lost during digital compression of MP3 and WMA audio files, BBE MP reproduces the warmth, details and nuances of the sound that you would otherwise miss. Effective for digital audio files.

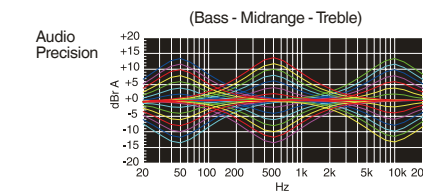
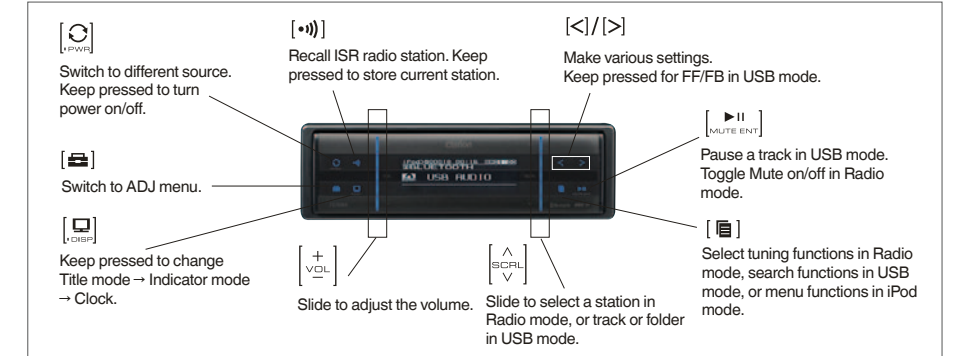
#### • BBE MP Process



BBE MP on

• Manufactured under license from BBE Sound, Inc.  
• Licensed by BBE Sound, Inc. under one or more of the following US patents: 5510752, 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

## Just slide your finger for full operational control



### 24-bit D/A converter

High-performance digital-to-analogue converter cancels out noise well into the non-audible high frequency range and also extends the S/N ratio for clearer, more realistic sound.

### Beat EQ for user customisable sound

In addition to providing 3 preset equalization patterns, Clarion's Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern. You can tune the sound to match the category of music you are listening to.

### 6-channel audio pre-out

2 channels each for Front (L/R), Rear (L/R), and subwoofers, allows integration into a wide range of systems.



Rear USB enables connection of an iPod and USB memory devices

|                    | SD | MP3/WMA/AAC | MP3 | FM/AM      | Bluetooth | Made for iPod                        | USB  | 4V/6ch OUTPUT | 2V/6ch OUTPUT | 2ch OUTPUT | AUX INPUT | BBE MP | Subwoofer level control | M-BASS EX | 24bit | BeatEQ | LPF/HPF | 50Wx4 | TOUCH SENSOR | OEL | 728c | FLIP DOWN CONSOLE | OEM | DCP |
|--------------------|----|-------------|-----|------------|-----------|--------------------------------------|------|---------------|---------------|------------|-----------|--------|-------------------------|-----------|-------|--------|---------|-------|--------------|-----|------|-------------------|-----|-----|
| FZ709A             | —  | ●           | —   | 18 FM/6 AM | Built-in  | USB (Audio) CC47237/48 (Audio/Video) | Rear | ●             | —             | —          | Rear      | ●      | ●                       | ●         | ●     | ●      | ●       | ●     | ●            | ●   | —    | —                 | ●   | —   |
| FZ409A             | —  | ●           | —   | 18 FM/6 AM | BLT370    | USB (Audio) CC47237/48 (Audio/Video) | Rear | —             | ●             | —          | Rear      | ●      | ●                       | ●         | ●     | ●      | ●       | ●     | ●            | ●   | —    | —                 | ●   | —   |
| FB286BTB / FB276BT | ●  | —           | ●   | 18 FM      | Built-in  | —                                    | —    | —             | —             | ●          | Rear      | —      | —                       | —         | —     | —      | —       | ●     | —            | —   | ●    | ●                 | —   | ●   |

MAIN UNITS



iPod® connectivity and comprehensive audio format compatibility for seamless driving entertainment



**CZ309A**  
CD/USB/MP3/WMA/AAC RECEIVER WITH CeNET CONTROL



Front USB enables connection of iPod and USB memory devices



Front panel auxiliary input

**Front USB compatible with iPod and USB memory**

The USB terminal on the front panel accepts USB connection of compatible iPod models as well as USB memory devices. With iPod, you will be able to control iPod functions from the CZ309A.

**Category selection for easy access**

Making it easier to access an enormous amount of music is a variety of category listing options. Choose to browse efficiently through your library.

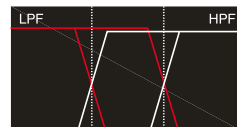


**Front AUX input for easy connection of external source**

With an AUX input on the front panel, it's easy to plug-in a portable audio device for instantaneous enjoyment.

**Built-in High Pass/Low Pass Filter**

The internal High Pass and Low Pass Filters allow you to set the frequency range of the audio signal that's output to each channel to best match the acoustic characteristics of the front and rear speakers and the subwoofer.



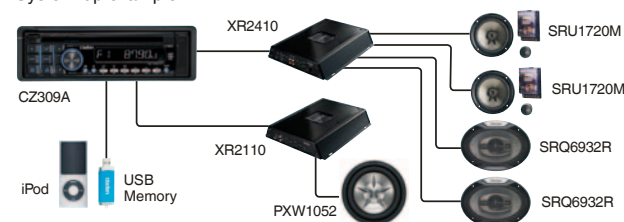
**6-channel audio pre-out**

Equipped with 2 channels for Front (L/R), 2 channels for Rear (L/R), and 2 channels for subwoofers, the full set of RCA line outputs allows integration into a wide range of potential systems, and is ready to support future system expansions.

**Bluetooth® ready**

Hands-free conversations on Bluetooth ready mobile phones, supports greatly the safety in driving. Conversations are possible via wireless connection of the phones to the vehicle audio systems. (Optional BLT370)

System-up example



Superb sound, your music your way



**CZ200A**  
CD/USB/MP3/WMA RECEIVER



Option

**Superior iPod® and iPhone™ connectivity (Only CZ200A)**

Just connect the USB cable to get direct and complete control of your iPod. Additionally, the center unit has been designed to connect to iPhone and has been communication and entertainment capabilities into your car system.

\* To connect an iPod, please use the USB cable included with your iPod.  
\* Please see our website for iPod models that can be connected.



Superior iPod and iPhone connectivity



USB connector even supports playback of WMA/MP3 files

**Enjoy digital music files in your car**



Option

**CZ100A**  
CD/MP3/WMA RECEIVER



Front auxiliary input for connection of portable audio player or other equipment

**H.M.I. Balances design and usability**



Clarion's quest for a superior H.M.I. resulted in this year's distinctive "starburst" control button array. Buttons are clustered symbolically for intuitive operation, with a large rotary volume control that is blue illuminated for easy recognition and sensational looks.

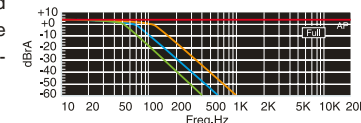
**< CZ200A / CZ100A Technology >**

**Beat EQ for user customisable sound**

In addition to providing 3 preset equalisation patterns — BASS BOOST, IMPACT, and EXCITE — Clarion's Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern. You can tune the sound to your liking, depending on the category of music, for a more fulfilling listening experience.

**Low Pass Filter for subwoofer**

Switching on the Low Pass Filter (LPF) will send only the low frequency range through specified outputs to ensure superb performance with a connected subwoofer. If you have or plan to add a subwoofer to your system.



**Front 2-channel auxiliary input**

An Auxiliary Input jack is located on the front of the unit for easy access. Just connect to an external audio source to enjoy its sound with stereo impact.

|        | COMPACT DISC DIGITAL AUDIO | COMPACT DISC DIGITAL AUDIO TEXT | MP3/WMA/AAC | MP3/WMA | FM/AM      | Bluetooth | Made for iPod | Works with iPhone | USB   | 2V/6ch OUTPUT | 2V/4ch OUTPUT | AUX INPUT | Subwoofer level control | M-BASS EX | Z-Enhancer Plus | BeatEQ | PEQ Parametric EQ | LPF | LPF/HPF | 50Wx4 HIGH POWER | 45Wx4 LIGHT POWER | Integral Rotary Volume | CeNET | OEM Remote Control | DCP |
|--------|----------------------------|---------------------------------|-------------|---------|------------|-----------|---------------|-------------------|-------|---------------|---------------|-----------|-------------------------|-----------|-----------------|--------|-------------------|-----|---------|------------------|-------------------|------------------------|-------|--------------------|-----|
| CZ309A | —                          | ●                               | ●           | —       | 18 FM/6 AM | BLT370    | USB (Audio)   | —                 | Front | ●             | —             | Front     | ●                       | ●         | —               | —      | ●                 | —   | ●       | —                | —                 | Anti-slip design       | ●     | ●                  | ●   |
| CZ200A | ●                          | —                               | —           | ●       | 18 FM/6 AM | BLT370    | USB (Audio)   | —                 | Rear  | —             | ●             | Front     | ●                       | ●         | —               | —      | ●                 | —   | —       | —                | —                 | —                      | —     | —                  | ●   |
| CZ100A | ●                          | —                               | —           | ●       | 18 FM/6 AM | BLT370    | —             | —                 | —     | —             | ●             | Front     | ●                       | ●         | —               | —      | ●                 | —   | —       | —                | —                 | —                      | —     | —                  | ●   |



Connect to your music and communicate with your world



### CX609A

2-DIN BLUETOOTH CD/  
USB/MP3/WMA/AAC  
RECEIVER



Hands-free microphone included    Option    Built-in Bluetooth for hands-free calling and music streaming.    iPod USB direct for playback through the USB cable provided with your iPod    Front panel auxiliary input

#### Built-in Bluetooth® hands-free

For wireless connection with mobile phones, PDAs and MP3 Players. Supports Bluetooth profiles A2DP/AVRCP for audio streaming and HFP/OPP for hands-free operation, so you can easily communicate and transfer digital music to your vehicle's audio system. A wired microphone is also supplied.

#### Rear USB for direct iPod® control

Just connect the USB cable that's included with your iPod to the rear USB input to control your iPod from the main unit. The CX609A then enables convenient genre/album/song title search using the iPod's control wheel.

\* To connect an iPod, please use the USB cable included with your iPod.  
\* Please see our website for iPod models that can be connected.

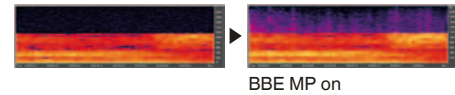
#### Title input mode

Titles up to 10 characters long can be stored in memory and displayed for CD (50 titles) and radio stations (30 titles). Press the [SRC] button to select the source and play it, then press and hold [DISP] for 1 second or longer, then the [ENT] button to switch to the title input display.

#### BBE® MP (Minimised Polynomial Non-Linear Saturation)

By restoring the harmonics that are lost during digital compression of MP3 and WMA audio files, BBE MP reproduces the warmth, details and nuances of the sound that you would otherwise miss. Effective for digital audio files and CDs.

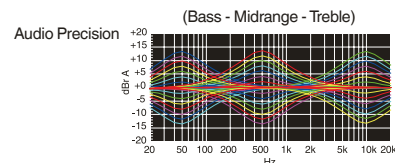
##### • BBE MP Process



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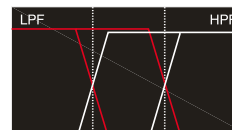
#### Beat EQ with parametric equalisation

In addition to providing 3 preset equalisation patterns, Beat EQ even lets you freely customise the level and range of the bass, midrange and treble portions of each pattern with a 3-band parametric equaliser.



#### High Pass/Low Pass Filter

You can set the frequency range of the audio signal that's output to each channel, to best match the acoustic characteristics of the front, rear and subwoofer. This is also possible even if you decide to connect your original speakers directly to your main unit without an external amplifier. The High Pass Filter is also available to cut off frequencies below 50, 80 or 120 kHz.



Versatile connectivity and multi-format compatibility



### DUZ386MP

2-DIN CD/USB/MP3/WMA/AAC  
RECEIVER WITH CeNET CONTROL



Option    iPod USB direct for playback through the USB cable provided with your iPod    Rear USB connector compatible with WMDRM 10    CD changer control

#### Direct USB iPod® control

The best in iPod control, Clarion's Direct USB iPod control enables you to connect your iPod with the standard iPod USB connection cable that is supplied by Apple. No extra cables and no need for costly custom installation, once again Clarion delivers the best in connectivity.

\* To connect an iPod, please use the USB cable included with your iPod.  
\* Please see our website for iPod models that can be connected.

#### Rear USB connector compatible with WMDRM 10

The rear USB connector is compatible with the Windows Media Digital Rights Management (WMDRM 10) format for audio, video, and other data. The connector allows you to link to a USB compatible device to play music files in WMDRM 10 format that were purchased and downloaded over the internet.

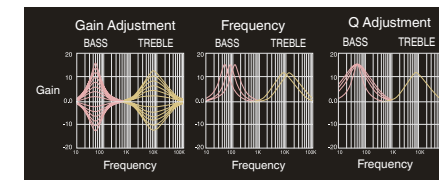
\* See the Clarion website for portable audio players that can be connected.  
\* Playback of WMDRM content from a PC on the in-vehicle unit is through a compatible portable audio player.

#### Compatibility with a wide range AAC playback

Clarion adds Apple iTunes AAC file support to our existing MP3 and WMA compressed digital audio compatibility.

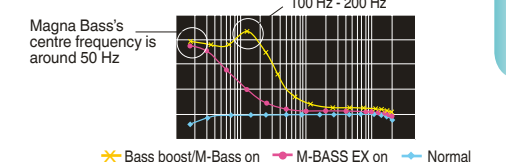
#### Z-Enhancer Plus

This sound-sculpting function allows you to select from three performance patterns —Type 1, Type 2 and Type 3. The gain and Q (steepness) of each performance pattern can also be adjusted, making it possible to emphasize the power and responsiveness of each band. Simply touch the control keys to arrange the sound inside your car to better suit your favourite music genre.



#### Magna Bass EX

Now, Clarion's new Magna Bass EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz - lower than that of ordinary loudness circuits at around 100 Hz, to provide extra low-frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.



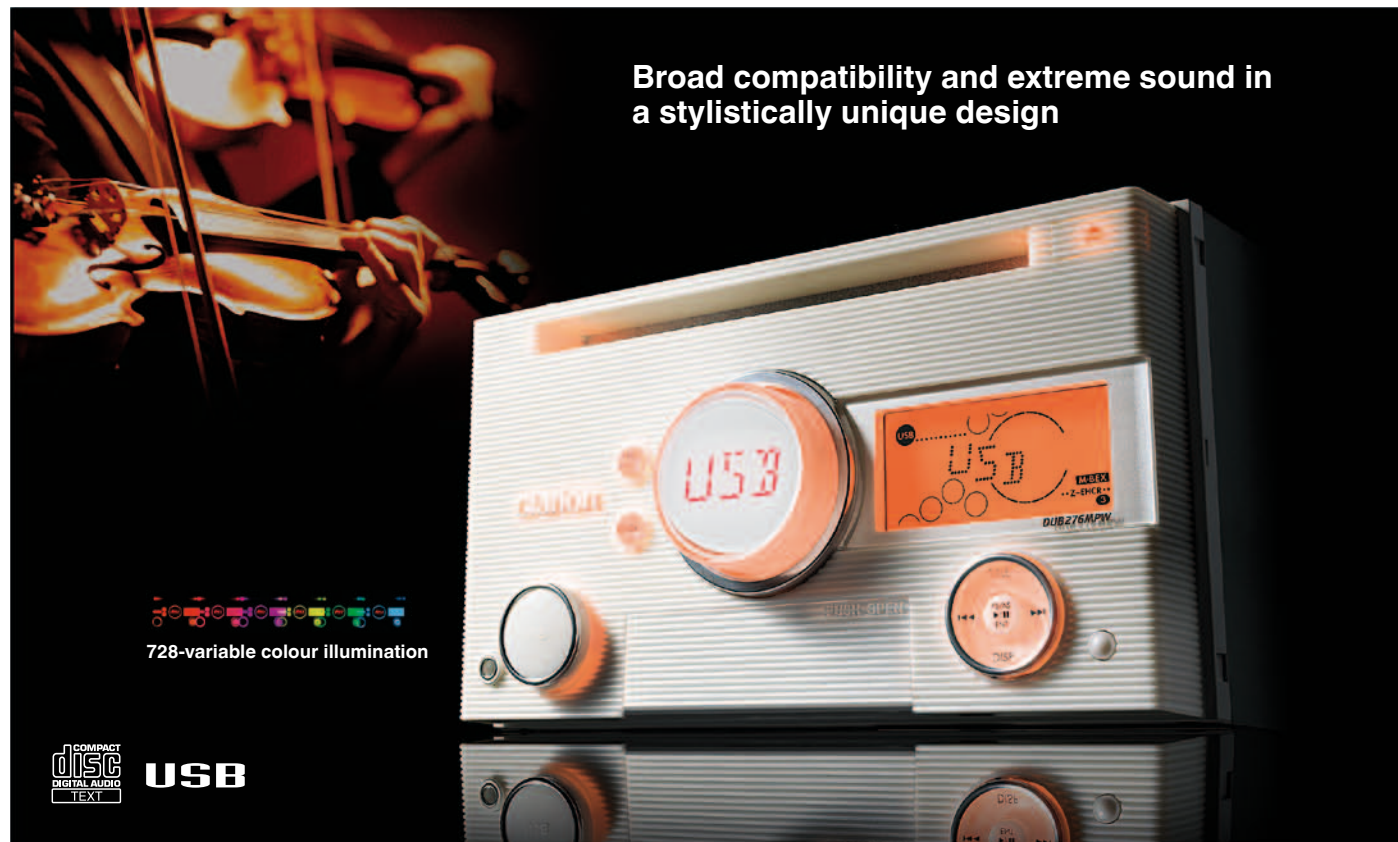
#### 2-volt / 4-channel RCA line out (Front 2ch + Rear 2ch)

Equipped with 4-channel line outputs, you are able to connect two front speakers with two outputs remaining for connection of up to two subwoofers or rear speakers.



|          | COMPACT DISC DIGITAL AUDIO TEXT | MP3/WMA/AAC | FM/AM      | Bluetooth® | Made for iPod | USB  | 2V/4ch output | AUX input | BBE® MP | Subwoofer level control | M-BASSEX | Z-Enhancer Plus | BeatEQ | LPF/HPF | 50W x 4 HIGH POWER | High Visibility LCD | 728c | CeNET | OEM Remote Ready |
|----------|---------------------------------|-------------|------------|------------|---------------|------|---------------|-----------|---------|-------------------------|----------|-----------------|--------|---------|--------------------|---------------------|------|-------|------------------|
| CX609A   | ●                               | ●           | 18 FM/6 AM | Built-in   | USB (Audio)   | Rear | ●             | Front     | ●       | ●                       | ●        | —               | ●      | ●       | ●                  | 13 x 10 2-Line      | ●    | —     | ●                |
| DUZ386MP | ●                               | ●           | 18 FM/6 AM | BLT370     | USB (Audio)   | Rear | ●             | Front     | —       | —                       | ●        | ●               | —      | —       | ●                  | 13 x 10 2-Line      | —    | ●     | ●                |





Broad compatibility and extreme sound in a stylistically unique design

728-variable colour illumination



## DUB276MPW/ DUB276MP

2-DIN CD/USB/MP3/WMA RECEIVER



DUB276MP

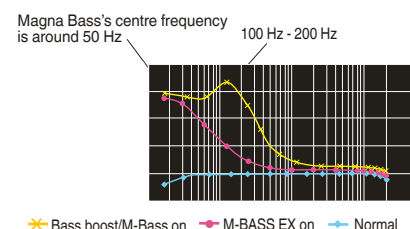
### USB input for compressed digital audio

This source unit can handle 15,000 digital audio files. File names can be up to 28 characters long, and folder names can be up to 16 characters long.



### MAGNA BASS EX for dynamic bass enhancement

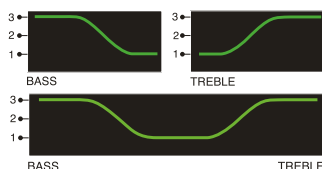
Now, Clarion's new MAGNA BASS EX boosts the bass by nearly 10 dB at even lower frequencies around 50 Hz - lower than that of ordinary loudness circuits at around 100 Hz, to provide extra low-frequency impact. It even automatically compensates the volume level to ensure well-balanced dynamic bass at any level.



★ Bass boost/M-Bass on    ★ M-BASS EX on    ★ Normal

### Z-Enhancer changes tonal balance

Want more bass, more treble, or more of both? No problem. Z-Enhancer has three pre-set equalisation curves to choose from... and the amount of boost is adjustable.



### 4 x 50 W MOS-FET power amplifier

MOS-FET amplification is the only way for Clarion's DUB276MP/DUB276MPW to deliver 4-channel x 50 watts unyielding power output and superior linearity. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and no switching noise. So crank it up, or turn it down for easy listening.



Take total control with the 6-disc changer and 9-band graphic equaliser

Built-in 6-disc CD changer

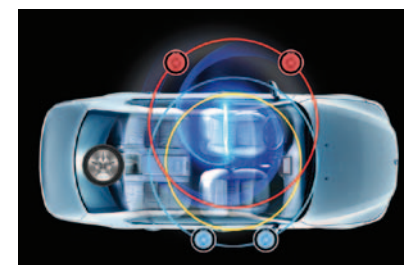
## WXZ466MP

2-DIN 6-DISC CD/  
MP3/WMA RECEIVER  
WITH CeNET CONTROL



### Customise the soundwaves for your car with LPO (Listening Position Optimiser)

The WXZ466MP's Listening Position Optimiser uses digital processing to virtually adjust the speaker distance, enabling sound stage settings that accommodate a wide variety of different vehicles. No matter what type of car you drive, you can count on Clarion to drive your sound with high precision and realistic presence.



### Non-stop musical enjoyment with built-in 6-disc CD changer and MP3/WMA file compatibility

You can load up to 6 discs in the unit's internal CD changer. In addition to music CDs and MP3 files, the changer also supports WMA files, which offer superior compression while maintaining high quality, making it possible to fit the equivalent of a full CD library on a single CD-R at comparable quality. ID3/WMA tags are supported for display of a wide range of information on the tunes being played.

### Digital Z-Enhancer sound customisation

By using a digital equaliser, there is more flexibility in tailoring your music to sound the way you want it. The Digital Z-Enhancer employs digital signal processing offering three preset equalisation curves each adjustable to LOW, MID and HIGH. You can choose from 9 custom EQ curves, each tailored to specific types of speakers.

| Setting               | Right    |        | Left     |        |
|-----------------------|----------|--------|----------|--------|
|                       | Distance | Sample | Distance | Sample |
| LPO 1 for compact car | R        | 10 cm  | 13       | 40 cm  |
|                       | L        | 40 cm  | 52       | 10 cm  |
| LPO 2 for sedan       | R        | 10 cm  | 13       | 80 cm  |
|                       | L        | 80 cm  | 104      | 10 cm  |
| LPO 3 for 1 BOX car   | R        | 10 cm  | 13       | 160 cm |
|                       | L        | 160 cm | 208      | 10 cm  |

### 23-band spectrum analyser with 9-band Graphic Equaliser

The 9-band Graphic Equaliser offers detailed customisation of the frequency curve to adapt the sound character to the speakers used and the acoustic properties in the car. The spectrum analyser visually displays the subtle expressions and nuances of the music. It provides a detailed graphical portrayal of 23 different frequency bands with instantaneous display of current band levels of the music being played. Additionally, you can choose between nine types of graphic display patterns to match the music and your mood.



|                    | COMPACT DISC DIGITAL AUDIO | COMPACT DISC DIGITAL AUDIO | MP3/WMA | FM/AM      | Bluetooth | USB   | 2V/4ch output | AUX INPUT | Z-ENHANCER | Digital Z-ENHANCER | G-EQ | MOS-FET Power AMP | LPO Listening Position Optimiser | 50Wx4 LEGH POWER | CeNET | 6-CD | 728c Virtual Column | OEM Remote Ready |
|--------------------|----------------------------|----------------------------|---------|------------|-----------|-------|---------------|-----------|------------|--------------------|------|-------------------|----------------------------------|------------------|-------|------|---------------------|------------------|
| DUB276MPW/DUB276MP | —                          | •                          | •       | 18 FM/6 AM | BLT370    | Front | •             | Front     | •          | —                  | —    | •                 | —                                | •                | —     | —    | •                   | •                |
| WXZ466MP           | •                          | —                          | •       | 18 FM/6 AM | —         | —     | •             | Rear      | —          | •                  | •    | •                 | •                                | •                | •     | •    | —                   | —                |



# HX-D2

CD RECEIVER WITH CeNET CONTROL



- Dual 24-bit/96kHz sampling digital to analogue burr-brown converters and DSP
- Built-in 4-way crossovers
- 5-band parametric equaliser
- Digital time alignment for each line level output
- 8-channel/4-volt gold plate oxygen-free RCA output
- 0.5dB-step electronic volume adjustment circuit
- Copper plated chassis
- External DC/DC converter
- CeNET control of 6-disc CD changer
- 2 x 2-channel auxiliary inputs
- Zinc die-cast faceplate
- Fiber optic input/output
- Vacuum florescent display
- 18 FM, 6 AM station presets
- CeNET iPod interface compatible (EA1251 is required)

Hear every nuance, experience every expression, with the sound of a true original.

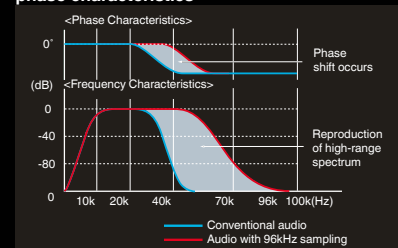


## Extreme realism with higher sampling rate

96kHz sampling enables reproduction of sounds faithful to the original source.

The 96kHz Sampling D/A converter samples at a much higher rate than the usual 44.1kHz to offer reproduction frequencies as high as 48kHz (half the sampling frequency of 96kHz), surpassing the format specifications for CD as the first such D/A Converter for car audio use. By broadening the sampling range, it becomes possible to reproduce the subtle nuances and depth contained in harmonic elements while reducing phase distortion in the high frequency range, delivering the full expressiveness and natural resonance that is inherently present in sound.

Conceptual diagram of frequency/phase characteristics



**Conventional CD players could only reproduce up to around 20kHz**

When converting digital signals to analogue for playback, sound with a frequency range of up to about half the sampling frequency is reproduced. For regular CDs which are sampled at 44.1kHz, playback is therefore possible for up to half that, or 22.05kHz, on conventional CD players.

**Burr Brown advanced segment type 24-bit D/A converter**

After high sampling the data is processed by an advanced segment type Burr Brown 24-bit D/A Converter which offers superior dynamic characteristics and is resistant to clock jitter. Its internal 4DAC structure operates on L/R± differential for higher accuracy in D/A conversion.

**Copper Plated Chassis prevents sound deterioration**

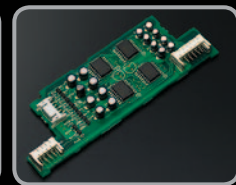
Copper plating helps minimise the generation of spurious electrical current which can adversely affect the signal, as well as noise interception. Incorporation of a zinc diecast panel also minimises sound quality deterioration due to vibration. And by externally positioning noise generating parts such as the power supply, VFD devices for the display and the drive mechanism, the sources of noise are eliminated.



96kHz sampling D/A converter



Copper plated chassis prevents sound deterioration



World's first 0.5dB step electronic volume circuit



Silver-coated SK-6N (99.9999% Oxygen-free) copper RCA

# Bluetooth®

## Bluetooth® & Mobile-phone

Use Bluetooth compatible mobile-phones for hands-free use as well as play streaming audio through your vehicles audio system. Connecting wirelessly with mobile-phones that utilize Bluetooth profiles (A2DP, AVRCP, HSP, and HFP) has never been simpler, and Clarion delivers the connection.

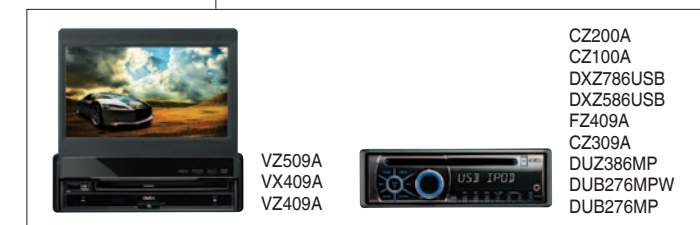
### BLT370

Bluetooth audio / mobile-phone transceiver for aux input

Bluetooth profile : Headset Profile (HSP), Hands-free Profile (HFP), Advanced Audio Distribution Profile (A2DP), Audio Video Remote Control Profile (AVRCP)



AUX Bluetooth interface with Hands-free and Audio Streaming capability.

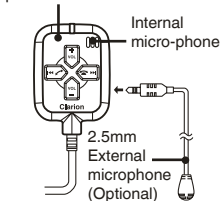


### Optional Microphone



RCB-199 External Microphone  
• For VZ400A/VX400A/VZ709A/VX709A/MAX686BT/RX786BT

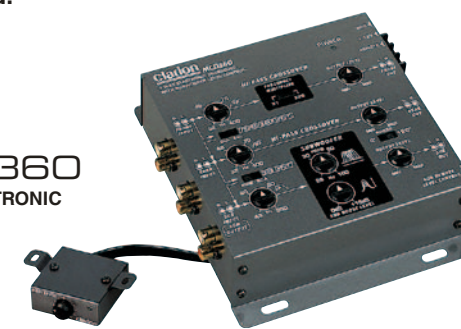
Bluetooth Audio/Mobile-phone Transceiver unit



\* The radio laws and regulations of some countries may prevent this equipment from being sold in certain regions.

A versatile crossover with inputs for either a three way system, or a two way system with front and rear fader control. A wired remote subwoofer level control is included.

### MCD360 3-WAY ELECTRONIC CROSSOVER



- 18 dB/oct. Slope • Front/Rear subwoofer level control • Built-in bass EQ
- Remote subwoofer level control (included) • Cross frequency multiplier
- 2/4/6-channel inputs / separate F/R crossover • 6-channel line level output



### DCZ625 6-DISC CD CeNET CHANGER



- 6-disc magazine • CD-R/RW ready • 8 x oversampling digital filter
- Horizontal or vertical mounting capability • Fibre optical digital output

< Specification >

- Wow/Flutter (WRMS) / Below measurable limit • S/N Ratio / 105 dB
- Frequency response / 95 Hz • Dynamic range / 5 to 20,000 dB • Harmonic distortion / 0.01% • Dimensions / W 225 x H 63 x D 167 mm



# AMPLIFIERS

Harness the power of our expertise



For decades Clarion has offered advanced power amplifiers to accommodate a variety of car entertainment systems. Count on our latest lineup, employing high quality materials and leading-edge design, for the sole purpose of providing the muscle to drive your music.

XH series  
CLASS GH AMPLIFIER

Solid expression of power, streamlined and ready to boost your bass



XH7110  
850 W MONO POWER AMPLIFIER



APA series

Multi-channel amplifiers with high wattage and superior heat dissipation

APA4360  
720 W 4/3/2 CHANNEL HIGH SOUND QUALITY AMPLIFIER



APA2180  
360 W 2/1 CHANNEL HIGH SOUND QUALITY AMPLIFIER



APX series

Power packed in black anodised aluminium, adding musical presence

XR2110  
420 W MONO POWER AMPLIFIER



XR2410  
400 W 4/3/2 CHANNEL POWER AMPLIFIER



XR2210  
200 W 2/1 CHANNEL POWER AMPLIFIER



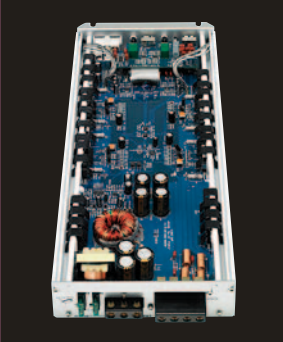
## Circuit design achieves high quality sound

Encompassing a host of high quality components, Clarion's amplifiers take your music to a whole new level. Featuring uncompromising resistance to magnetic noise, the circuit design used by Clarion's amplifiers allows for easy subwoofer system configurations using its embedded high-pass and low-pass filters. What's more, Clarion's high-grade, gold-plated block terminals offer low electrical and contact resistance for crystal clear sound. These amps also boast 2-ohm stability for increased power and reliability when connected to speakers with 2-ohm loads. Put simply, Clarion offers a line of amplifiers that boast superior power and versatility.

XH7110



APA4360



## MOS-FET power amp

There's only one way for Clarion's source units to deliver unyielding power output and linearity: MOS-FET amplification, or Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies, a MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. This means you can crank up the volume or set it to easy listening. Either way, your sound will be crystal clear.

## Gapped E core choke coils (APA series)

Utilised in the power supply circuitry, Gapped E core choke coils offer low impedance, making them resistant to harmful magnetic noise. This results in a more efficient amplifier and a low-noise power supply, which is important for achieving crystal clear sound.



## Gold-plated RCA and block terminal

By utilising gold-plated RCA and block terminals, Clarion's amplifiers offer increased conductivity and low signal loss. Gold has an extremely low electrical resistance and low contact resistance, which helps to prevent voltage drops, noise, heating and other problems from occurring.

## 2-Ohm stability

Utilising this design for peak performance and unwavering reliability, Clarion's amplifiers can drive lower impedance loads for increased power.

## FEATURES & SPECIFICATIONS

|  | XH7110         | APA4360        | APA2180        | XR2110                | XR2410              | XR2210              |
|--|----------------|----------------|----------------|-----------------------|---------------------|---------------------|
| Number of channels   | 1              | 4/3/2          | 2/1            | 1                     | 4/3/2               | 2/1                 |
| Maximum power output (W)   | 850            | 720            | 360            | 420                   | 400                 | 200                 |
| MOS-FET power supply   | ●              | ●              | ●              | ●                     | ●                   | ●                   |
| 4-ohm (RMS)  | 450W x 1       | 90W x 4        | 90W x 2        | 300W x 1              | 60W x 4             | 60W x 2             |
| 2-ohm (RMS)  | 850W x 1       | 130W x 4       | 130W x 2       | 400W x 1              | 90W x 4             | 90W x 2             |
| Bridged  | —              | 260W x 2       | 260W x 1       | —                     | 100W x 2            | 100W x 1            |
| Bass Extender: 0 ~ +15 dB @ 45 Hz  | —              | ●              | ●              | —                     | —                   | —                   |
| Independent front / rear adjustable crossover frequencies (HP/LP): 55 ~ 550 Hz or 550 ~ 5,500 Hz | —              | ●              | —              | —                     | —                   | —                   |
| Adjustable crossover frequency (HP/LP): 55 ~ 550Hz or 550 ~ 5,500Hz                              | —              | —              | ●              | —                     | —                   | —                   |
| Independent front / rear adjustable -12 dB/oct. High/Low Pass Crossover, 50 ~ 300 Hz             | —              | —              | —              | —                     | ●                   | ●                   |
| Selectable bass Boost: 0/6/12 dB @ 50 Hz   | —              | —              | —              | ●                     | ●                   | ●                   |
| Adjustable line level input: 200 mV up to 6 V  | —              | ●              | ●              | —                     | —                   | —                   |
| Adjustable -12 dB/oct. High/Low Pass crossover, 50 ~ 300 Hz                                      | —              | —              | —              | —                     | ●                   | ●                   |
| Adjustable Low Pass Crossover @ 30 ~ 300 Hz  | —              | —              | —              | ●                     | —                   | —                   |
| Adjustable Low Pass Crossover @ 30 ~ 250 Hz  | ●              | —              | —              | —                     | —                   | —                   |
| Adjustable subsonic filter, off/15/30Hz  | ●              | —              | —              | —                     | —                   | —                   |
| Input voltage selector   | ●              | —              | —              | —                     | ●                   | —                   |
| Precise frequency selector   | ●              | —              | —              | —                     | —                   | —                   |
| Variable bass boost: 0-15dB @ 30-125Hz   | ●              | —              | —              | —                     | —                   | —                   |
| 2-ohm stable   | —              | ●              | ●              | ●                     | ●                   | ●                   |
| 2-ohm mono stable  | ●              | —              | —              | —                     | —                   | —                   |
| 1-ohm mono stable  | ●              | —              | —              | —                     | —                   | —                   |
| Variable bass boost control  | ●              | ●              | ●              | —                     | —                   | —                   |
| Gold plated connectors, RCA/speaker/power  | ●              | ●              | ●              | ●                     | ●                   | ●                   |
| Speaker level input  | ●              | ●              | ●              | ●                     | ●                   | ●                   |
| Soft mute On/ Off circuitry  | —              | ●              | ●              | —                     | —                   | —                   |
| Dimensions (W x H x D)(mm)   | 407 x 230 x 67 | 165 x 56 x 407 | 165 x 56 x 285 | 301.6 x 279.4 x 57.15 | 200 x 279.4 x 57.15 | 200 x 279.4 x 57.15 |



# SUBWOOFERS

## High-performance reproduction of super lows



Each subwoofer is the culmination of the unrivalled expertise Clarion holds in the field of car audio. Each thundering beat will be the pulse of your music and your lifestyle. Rely on them to deliver the powerful, earth-shaking bass performance that your music deserves.

SUBWOOFERS

SUBWOOFERS

### Aluminium die-cast frame (PXW/PFW series)

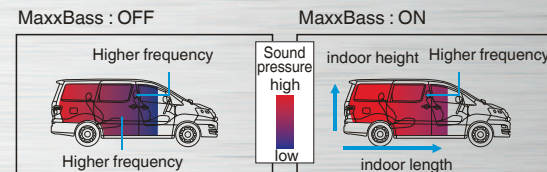
An aluminium die-cast frame is employed for the toughness and vibration damping properties it provides. Aluminium suppresses noise from resonance and energy loss to achieve linear movement for cones and voice coils.

### S.E.T. (Spider Exhaust Technology) cooling (PXW/PFW series)

Heat is the number one enemy of a subwoofer. Clarion's Spider Exhaust Technology Cooling allows hot air to escape from the outside of the voice coil assembly.

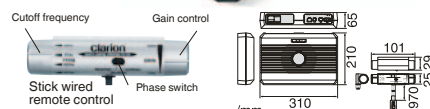
### MaxxBass technology (SRV313)

Natural sound is made up of fundamentals that determine the pitch of sound and harmonics with higher frequencies that determine the character of the sound. MaxxBass makes use of harmonics to recreate these fundamentals. That innovative technology enhances bass to the max by adding harmonics continuously with the audio signal.



**Active subwoofers with dual voice coils and air-compression structure for high quality lows**

**SRV313**  
120 W Max. SLIM DESIGN  
17 CM (6-3/4") COUNTER DRIVE  
ACTIVE SUBWOOFER



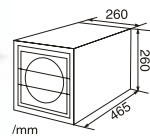
• Dual voice coil • 120 W high power amplifier with Low Pass Filter • MaxxBass circuit for virtual bass enhancer • 17 cm (6-3/4") counter drive woofer with dual-neodymium magnet • Air compression structure with aluminium die-cast enclosure • Remote control for gain control / Low Pass Filter (selectable 50 / 75 / 100 / 120 Hz) / phase select • Blue LED power indicator • RCA line level input/speaker level input • Music peak power : 120 W • Continuous power : 60 W • Frequency response : 30 ~ 200 Hz

"MaxxBass" is a patent of KS-Wares. "MaxxBass" is a registered trademark of KS-Wares.

**SRV202**  
120 W Max. 20 CM (8")  
ACTIVE SUBWOOFER

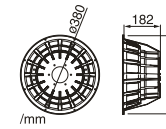


• Dual voice coil woofer with strontium magnet • 120 W high power amplifier with Low Pass Filter • Air compression structure for dynamic bass response • Subwoofer level control for gain control / Low Pass Filter (55 ~ 130 Hz) / phase select • Leather finished MDF enclosure • RCA line level input/speaker level input • Music peak power : 120 W • Continuous power : 60 W • Frequency response : 20 ~ 200 Hz



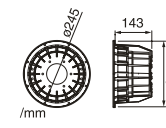
**Big bass in sound and form — high power handling combined with dynamic design**

**PXW1552**  
1500 W Max. 38 CM (15")  
DUAL 4-OHM VOICE COIL  
SUBWOOFER

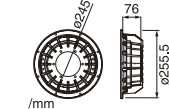


Premium materials assure powerful performance. Clarion's PXW/PFW subwoofers are designed to deliver exceptional bass performance through high quality materials and design such as the Kevlar/paper composite cone design, dual Strontium Ferrite magnets assembly, and S.E.T. (Spider Exhaust Technology) cooling to allow hot air to escape through a computer-designed duct system.

**PXW1052**  
1000 W Max. 25 CM (10")  
DUAL 4-OHM VOICE COIL  
SUBWOOFER

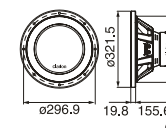


**PFW1051**  
600 W Max. 25 CM (10")  
SINGLE 4-OHM VOICE COIL  
SHALLOW SUBWOOFER

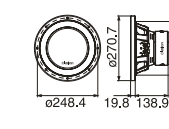


**Seamless parabolic design coupled with dual voice coils to maximise bass response**

**WQ3010D**  
1500 W MAX. 30 CM (12")  
DUAL 4-OHM VOICE COIL  
SUBWOOFER



**WQ2510D**  
1500 W MAX. 25 CM (10")  
DUAL 4-OHM VOICE COIL  
SUBWOOFER



| FEATURES & SPECIFICATIONS   | PXW1552            | PXW1052            | PFW1051            | WQ3010D         | WQ2510D        |
|---|--------------------|--------------------|--------------------|-----------------|----------------|
| Reproduction system   | Subwoofer          | Subwoofer          | Subwoofer          | Subwoofer       | Subwoofer      |
| Speaker size (mm)   | 380                | 250                | 250                | 300             | 250            |
| Dual strontium ferrite magnets  | •                  | •                  | •                  | •               | •              |
| Polypropylene electrolytic spun aluminium coated dust cap design      | •                  | •                  | •                  | •               | •              |
| S.E.T. (Spider Exhaust Technology) cooling                            | •                  | •                  | •                  | •               | •              |
| Rear vented pole piece  | •                  | •                  | •                  | •               | •              |
| Aluminium die-cast frame and cooling spacer for higher power handling | •                  | •                  | •                  | •               | •              |
| 4-ohm heat resistant voice coils                                      | Dual               | Dual               | Single             | Dual            | Dual           |
| Kevlar/paper composite cone design                                    | •                  | •                  | •                  | •               | •              |
| Reinforced FRP / Paper cone design                                    | •                  | •                  | •                  | •               | •              |
| Co-polymer composite high excursion surround                          | •                  | •                  | •                  | •               | •              |
| Nitrile butadiene rubber high excursion surround                      | •                  | •                  | •                  | •               | •              |
| Dual gold plated block terminals                                      | •                  | •                  | •                  | •               | •              |
| Linear poly-cotton spider with integrated tinsel leads                | •                  | •                  | •                  | •               | •              |
| Custom designed die-cast aluminium                                    | •                  | •                  | •                  | •               | •              |
| Custom stamped steel powder coated chassis                            | •                  | •                  | •                  | •               | •              |
| Hidden screw mounting gasket  | •                  | •                  | •                  | •               | •              |
| Frequency response (Hz)   | 20-1500            | 20-1500            | 20-1500            | 30-1000         | 30-1000        |
| Basket type   | Die Cast Aluminium | Die Cast Aluminium | Die Cast Aluminium | Stamped steel   | Stamped steel  |
| Number of voice coils   | 2                  | 2                  | 1                  | 2               | 2              |
| Impedance(Ohm)  | 4                  | 4                  | 4                  | 4 + 4           | 4 + 4          |
| Music peak power (W)  | 1500               | 1000               | 600                | 1500            | 1500           |
| Continuous power (W)  | 750                | 500                | 300                | 500             | 500            |
| Outside dimension (mm)  | 380 (15-3/8")      | 245 (10-3/8")      | 245 (10-3/8")      | 297 (11-11/16") | 248 (9-25/32") |
| Mounting depth (mm)   | 182 (7")           | 143 (5-1/2")       | 76 (3")            | 156 (6-1/8")    | 139 (5-15/32") |
| Enclosure size(ft3)   |                    |                    |                    | 1.1-2.2         | 0.4-1.2        |



# SPEAKERS

Superior acoustic performance for any car



Speaker performance has a direct and undeniable effect on the sound you ultimately hear. Clarion offers a broad lineup so you can choose the type of design, power handling capabilities and acoustic characteristics that best suit your automobile.

## SPEAKERS TECHNOLOGY

### ● ULTRA SERIES/ PLATINUM SERIES (SRU1720M/1320M)

#### MultiFit

MultiFit construction allows the tweeter and woofer to be separated during installation. This allows the user the ability to install the speakers in the most focally-correct location for specific vehicles.



#### Spider Exhaust Technology cooling

Heat is the number one enemy of speakers. All of Clarion's Ultra and Platinum (SRU1720M/1320M) woofer drivers feature S.E.T. (Spider Exhaust Technology) cooling, to allow hot air to escape the speaker's internal motor assembly via computer designed porting.



#### TP silk dome tweeter (ULTRA SERIES)

Titanium particles have been vapour-deposited onto the pure silk dome to increase rigidity, contributing to smooth response from the mid- to high-frequency range, up to an amazing 80 kHz.

## ULTRA

### ULTRA SERIES

Highest grade materials for high power handling, superior response, and stately looks.



## PLATINUM

### PLATINUM SERIES

Separate woofers and tweeters to choose the exact solution for upgrading your car system.



## SUPERB SOUND SERIES

## SRQ

### SRQ SERIES

Multiaxial and component speakers provide the exact solution for your acoustic environment.



## SRE

### SRE SERIES

Full range of multiaxial, coaxial and component speakers flexibly deliver high quality sound.



## SRG

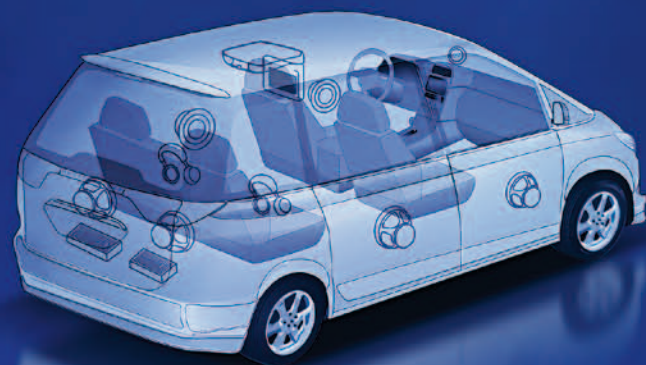
### SRG SERIES

Full range of coaxial speakers to easily upgrade from your car's factory system.



### Full Lineup of Sonic Satisfaction

The 2010 Clarion speaker lineup ranges from simple upgrades to ultimate performers. SRU series and Platinum series speakers feature crossover networks and multifit designs that will make them easy to install and integrate into a variety of existing car audio systems. The level of performance you're looking for is always attainable with Clarion speakers.



### ● PLATINUM SERIES (SRP1721S/1321S)

#### TM-GF / TW (Titanium Metallized Glass Fibre / Titanium Wire composite) cone

This newly developed speaker cone material offers the combined benefits of fiberglass lightness and responsiveness, Titanium metallization for superior rigidity, reinforced with Titanium wire interwoven into the cone material structure.



#### High-grade -12dB/oct. 2-way crossover network with level attenuator (0, -3 dB)

This precision crossover network will enable the speakers to be flexibly installed into a variety of existing car audio systems and deliver optimum performance.

### ● SRE SERIES (SRE1721S/1321S/211H)

#### In-line -6dB/oct. crossover network

This precision crossover network will enable the speakers to be flexibly installed into a variety of existing car audio systems and deliver optimum performance.

#### Variable angle tweeter

Since the angle of the tweeter can be freely adjusted, it enables fine tuning of sound to best match the location and type of installation.

### ● SRQ SERIES

#### PMI-PP cone (SRQ1621S/6932R/1631R/6831C)

The diaphragm uses a newly developed hybrid material in which Pearl Mica are mixed with a Polypropylene base material. This material allows the development of speaker cones that are lighter and more responsive, as well as highly durable and resistant to distortion. It offers a unique shimmer that makes it look as bright and beautiful as it sounds.



#### Pure soft dome tweeter (SRQ1621S/6932R/1631R/6831C/211H)

Equipped exclusively on the tweeters of SRQ series speakers, this new material balances suppleness and firmness for highly responsive reproduction of high frequencies. Its translucent black design gives it a unique look and presence that is in-step with the precision acoustic performance it is capable of offering.



### ● SRG SERIES

#### Mica injection polypropylene cone

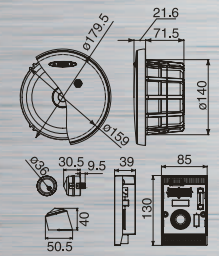
These injection molded diaphragms use polypropylene with mica particles blended in, with a molecular structure that radiates from the inside out, to attain the lightness and rigidity necessary to create speakers with superior response even to the fast transients of digital sources.



**SRU1720M**

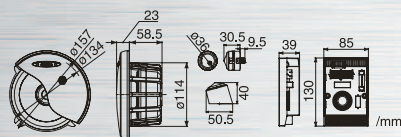
350 W Max.  
16.5 CM (6-3/4") / 15 CM x 20 CM  
(6" x 8")  
MultiFit SPEAKER SYSTEM

• GM fit basket design/15cm x 20cm (6" x 8")  
FORD adaptor included

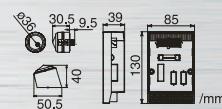


**SRU1320M**  
250 W Max.  
13 CM (5-1/4") / 13 CM x 18 CM (5" x 7")  
MultiFit SPEAKER SYSTEM

• 13cm x 18cm (5" x 7") FORD/CHRYSLER/  
TOYOTA adaptor included

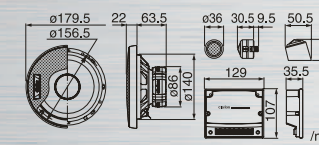


**SRU310H**  
300 W Max.  
2.5 CM (1") DOME TWEETER

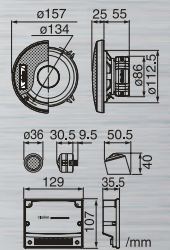


**SRP1721S**

350 W Max. 16.5 CM (6-1/2")  
2-WAY COMPONENT SYSTEM

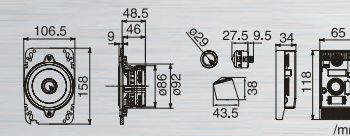


**SRP1321S**  
300 W Max.  
13 CM (5-1/4") 2-WAY  
COMPONENT SYSTEM

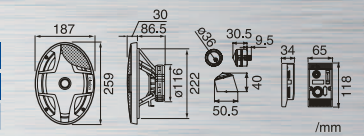


**SRP4620M**  
150 W Max.  
10 CM (4") / 10 CM x 15 CM (4" x 6")  
MultiFit SPEAKER SYSTEM

• 10cm x 15cm (4" x 6") OEM replacement  
adaptor included



**SRP6920M**  
450 W Max.  
15 CM x 23 CM (6" x 9")  
MultiFit SPEAKER SYSTEM



FEATURES & SPECIFICATIONS

|  | SRU1720M                | SRU1320M                | SRU310H        |
|--|-------------------------|-------------------------|----------------|
| Reproduction system  | MultiFit speaker system | MultiFit speaker system | Dome tweeter   |
| TP-GF cone woofer with rubber surround (mm)  | 165                     | 130                     | —              |
| TP-silk dome tweeter with neodymium magnet (mm)  | 25                      | 25                      | 25             |
| Aluminium die-cast frame for higher power handling and reduced distortion                                | •                       | •                       | —              |
| S.E.T. (Spider Exhaust Technology) cooling   | •                       | •                       | —              |
| Powerful strontium magnet for dynamic bass response  | •                       | •                       | —              |
| Powerful neodymium magnet (tweeter)  | •                       | •                       | •              |
| 2-way mounting tweeter (flush mounting / surface mounting)   | •                       | •                       | •              |
| High-grade -12 dB/oct. 2-way crossover network with level attenuator (tweeter level adjust: 0 dB, -3 dB) | •                       | •                       | —              |
| High-grade -12dB/oct crossover network with level attenuator (tweeter level adjust: 0dB, -3 dB, -6 dB)   | —                       | —                       | •              |
| Extremely high frequency reproduction (kHz)  | 80                      | 80                      | 80             |
| Grille & mesh included   | •                       | •                       | —              |
| Music peak power (W)   | 350                     | 250                     | 300            |
| Continuous power (W)   | 80                      | 80                      | 90             |
| Fs (Hz)  | 65                      | 85                      | —              |
| Qts  | 0.44                    | 0.54                    | —              |
| Vas (Litres)   | 17.7                    | 10.1                    | —              |
| Frequency response (Hz)  | 25 ~ 80,000             | 35 ~ 80,000             | 2,000 ~ 80,000 |
| Efficiency (dB/W/m)  | 89                      | 88                      | 90             |

FEATURES & SPECIFICATIONS

|  | SRP4620M                | SRP6920M                | SRP1721S               | SRP1321S               |
|--|-------------------------|-------------------------|------------------------|------------------------|
| Reproduction system  | MultiFit speaker system | MultiFit speaker system | 2-way component system | 2-way component system |
| TM-GF / titanium wire composite cone woofer with rubber surround (mm)                                    | —                       | —                       | 165                    | 130                    |
| Glass-fiber cone woofer with rubber surround (mm)  | 100                     | 150 x 230               | —                      | —                      |
| Pure silk dome tweeter with neodymium magnet (mm)  | 20                      | 25                      | —                      | —                      |
| Pure soft dome tweeter with neodymium magnet (mm)  | —                       | —                       | 25                     | 25                     |
| Aluminium die-cast frame for higher power handling and reduced distortion                                | •                       | •                       | •                      | •                      |
| S.E.T. (Spider Exhaust Technology) cooling   | •                       | •                       | •                      | •                      |
| Grille & mesh included   | •                       | •                       | •                      | •                      |
| Powerful strontium magnet for dynamic bass response  | •                       | •                       | •                      | •                      |
| 2-way mounting tweeter (flush mounting / surface mounting)   | •                       | •                       | •                      | •                      |
| Custom-fit tweeter bracket included (for Renault, Peugeot, Citroen)                                      | —                       | —                       | •                      | •                      |
| High-grade -12dB/oct. 2-way crossover network with level attenuator (tweeter level adjust : 0 dB, -3 dB) | •                       | •                       | •                      | •                      |
| Extremely high frequency reproduction / 50 kHz   | •                       | •                       | •                      | •                      |
| Music peak power (W)   | 150                     | 450                     | 350                    | 300                    |
| Continuous power (W)   | 60                      | 90                      | 55                     | 50                     |
| Fs (Hz)  | 90                      | 50                      | 65                     | 70                     |
| Qts  | 0.69                    | 0.51                    | 0.90                   | 1.00                   |
| Vas (Litres)   | 2.8                     | 38.8                    | 10.0                   | 4.8                    |
| Frequency response (Hz)  | 40 ~ 50,000             | 25 ~ 50,000             | 25 ~ 50,000            | 40 ~ 50,000            |
| Efficiency (dB / W / m)  | 88                      | 92                      | 91                     | 90                     |

SPEAKERS

SPEAKERS





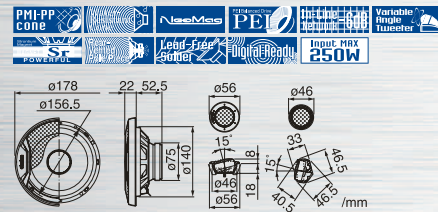
Full range of multiaxial, coaxial and component speakers flexibly deliver high quality sound.



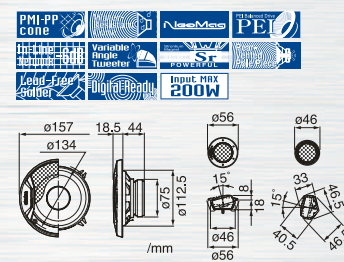
SRE1721S

SRE6931R

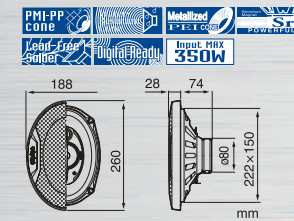
250 W Max. 16.5 CM (6-1/2")  
2-WAY COMPONENT SYSTEM



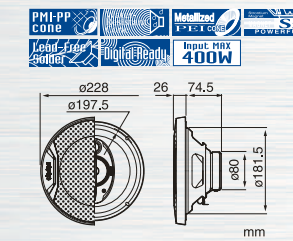
SRE1321S  
200 W Max. 13 CM (5-1/4")  
2-WAY COMPONENT SYSTEM



350 W Max. 15 CM x 23 CM (6" x 9")  
MULTIAXIAL 3-WAY



SRE2031R  
400 W Max. 20 CM (8")  
MULTIAXIAL 3-WAY

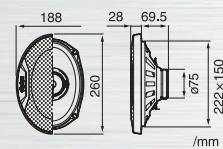


SPEAKERS

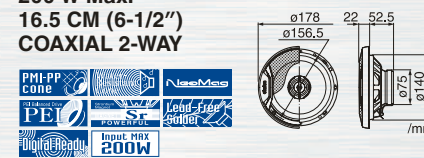
SPEAKERS



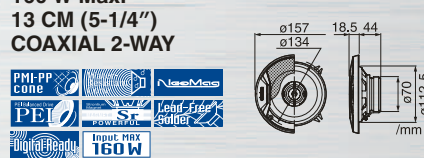
SRE6921R  
300 W Max.  
15 CM x 23 CM (6" x 9")  
COAXIAL 2-WAY



SRE1721R  
200 W Max.  
16.5 CM (6-1/2")  
COAXIAL 2-WAY



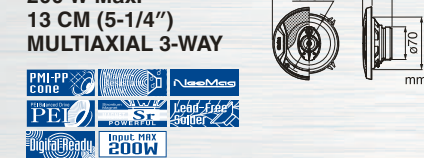
SRE1321R  
160 W Max.  
13 CM (5-1/4")  
COAXIAL 2-WAY



SRE1731R  
250 W Max.  
16.5 CM (6-1/2")  
MULTIAXIAL 3-WAY



SRE1331R  
200 W Max.  
13 CM (5-1/4")  
MULTIAXIAL 3-WAY



SRE211H  
2.5 CM (1") BALANCED-DRIVE TWEETER



SRE1021R  
140 W Max.  
10 CM (4") COAXIAL  
2-WAY



FEATURES & SPECIFICATIONS

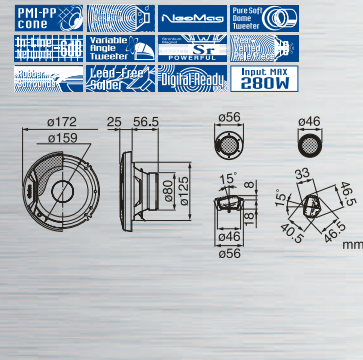
|   | SRE1721S               | SRE1321S               | SRE6921R      | SRE1721R      | SRE1321R      | SRE1021R      | SRE6931R         | SRE2031R         | SRE1731R         | SRE1331R         | SRE211H                |
|---|------------------------|------------------------|---------------|---------------|---------------|---------------|------------------|------------------|------------------|------------------|------------------------|
| Reproduction system   | 2-way component system | 2-way component system | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way | Multiaxial 3-way | Multiaxial 3-way | Multiaxial 3-way | Multiaxial 3-way | Balanced-drive tweeter |
| PMI-PP cone woofer (mm)   | 165                    | 130                    | 150 x 230     | 165           | 130           | 100           | 150 x 230        | 200              | 165              | 130              | —                      |
| Metallized PEI balanced-drive tweeter with neodymium magnet (mm)        | 25                     | 25                     | —             | 25            | 25            | 25            | —                | —                | —                | —                | 25                     |
| Metallized PEI cone tweeter (mm)  | —                      | —                      | 60            | —             | —             | —             | —                | —                | —                | —                | —                      |
| Metallized PEI balanced-drive mid-range (mm)                            | —                      | —                      | —             | —             | —             | —             | —                | —                | 25               | 25               | —                      |
| Metallized PEI cone mid-range (mm)                                      | —                      | —                      | —             | —             | —             | —             | 60               | 60               | —                | —                | —                      |
| Dome tweeter (mm)   | —                      | —                      | —             | —             | —             | —             | 18               | 18               | 8                | 8                | —                      |
| 2-way mounting tweeter (variable angle flush mounting/surface mounting) | ●                      | ●                      | —             | —             | —             | —             | —                | —                | —                | —                | ●                      |
| Custom-fit tweeter bracket included (for Renault, Peugeot, Citroen)     | ●                      | ●                      | —             | —             | —             | —             | —                | —                | —                | —                | —                      |
| Powerful strontium magnet for dynamic bass response                     | ●                      | ●                      | ●             | ●             | ●             | ●             | ●                | ●                | ●                | ●                | ●                      |
| Powerful neodymium magnet   | ●                      | ●                      | —             | ●             | ●             | ●             | —                | —                | ●                | ●                | ●                      |
| In-line -6 dB/oct. crossover network                                    | ●                      | ●                      | —             | —             | —             | —             | —                | —                | —                | —                | ●                      |
| Grille & mesh included  | ●                      | ●                      | ●             | ●             | ●             | ●             | ●                | ●                | ●                | ●                | —                      |
| Designed for direct OEM replacement                                     | ●                      | ●                      | —             | ●             | ●             | ●             | —                | —                | ●                | ●                | —                      |
| Music peak power (W)  | 250                    | 200                    | 300           | 200           | 160           | 140           | 350              | 400              | 250              | 200              | 200                    |
| Continuous power (W)  | 40                     | 40                     | 45            | 40            | 30            | 30            | 50               | 50               | 40               | 35               | 40                     |
| Fs (Hz)   | 65                     | 75                     | 75            | 65            | 85            | 100           | 55               | 65               | 70               | 85               | —                      |
| Qts   | 1.10                   | 1.00                   | 2.18          | 1.00          | 1.20          | 1.10          | 1.30             | 1.30             | 0.90             | 1.20             | —                      |
| Vas (litres)  | 15.5                   | 7.2                    | 21.9          | 15.5          | 6.9           | 2.5           | 41.0             | 25.6             | 14.8             | 6.9              | —                      |
| Frequency response (Hz)   | 28 ~ 35,000            | 40 ~ 35,000            | 28 ~ 32,000   | 28 ~ 32,000   | 40 ~ 32,000   | 45 ~ 32,000   | 28 ~ 35,000      | 25 ~ 35,000      | 28 ~ 35,000      | 40 ~ 35,000      | 2,500 ~ 35,000         |
| Efficiency (dB/W/m)   | 91                     | 91                     | 91            | 91            | 91            | 90            | 92               | 92               | 91               | 91               | 90                     |



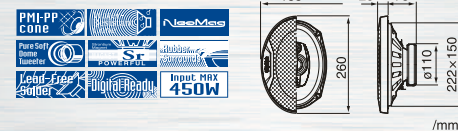


**SRQ1621S**

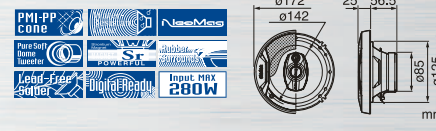
280 W Max. 16 CM (6-1/2")  
2-WAY COMPONENT SYSTEM



**SRQ6932R**  
450 W Max. 15CM x 23CM(6" x 9")  
MULTIAXIAL 3-WAY

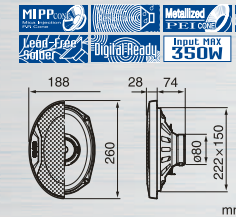


**SRQ1631R**  
280 W Max. 16CM (6-1/2")  
MULTIAXIAL 3-WAY



**SRG6921R**

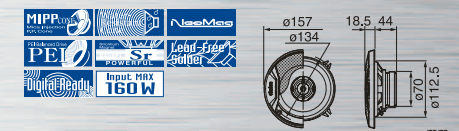
350 W Max. 15 CM x 23CM (6" x 9")  
COAXIAL 2-WAY



**SRG1621R**  
180 W Max. 16 CM (6-1/2")  
COAXIAL 2-WAY



**SRG1321R**  
160 W Max. 13 CM (5-1/4")  
COAXIAL 2-WAY

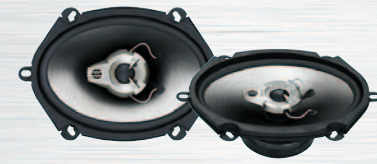
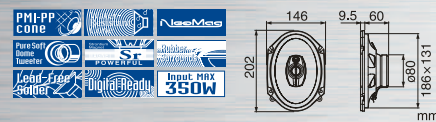


SPEAKERS

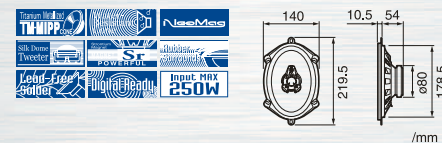
SPEAKERS



**SRQ6831C**  
350 W Max. 15 CM x 20 CM (6" x 8")  
CUSTOM FIT MULTIAXIAL 3-WAY



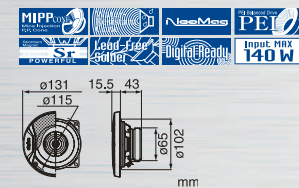
**SRQ5730C**  
250 W Max. 13 CM x 18 CM (5" x 7")  
CUSTOM-FIT MULTIAXIAL 3-WAY



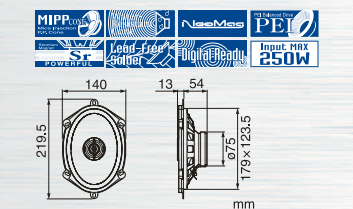
**SRQ211H**  
200 W Max. 2 CM (3/4")  
DOME TWEETER



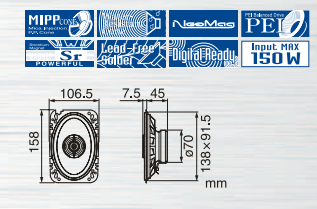
**SRG1021R**  
140 W Max.  
10 CM (4") COAXIAL 2-WAY



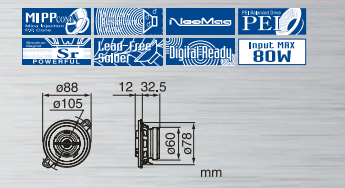
**SRG5721C**  
250 W Max.  
13 CM x 18 CM (5" x 7")  
CUSTOM FIT COAXIAL 2-WAY



**SRG4621C**  
150 W Max.  
10 CM x 15 CM (4" x 6")  
CUSTOM FIT COAXIAL 2-WAY



**SRG921C**  
80 W Max. 9 CM (3-1/2")  
CUSTOM FIT COAXIAL 2-WAY

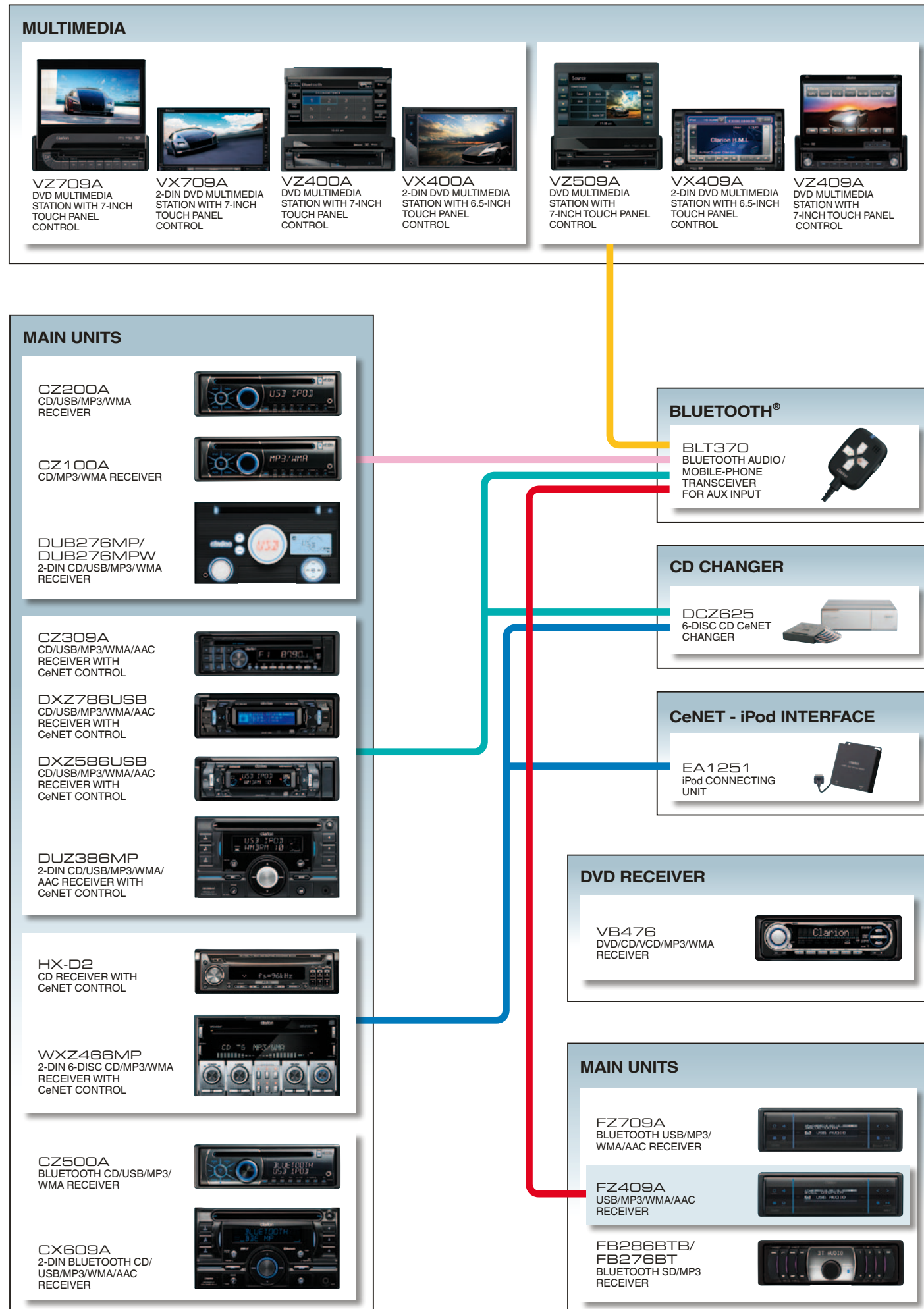


| FEATURES & SPECIFICATIONS                                | SRQ1621S               | SRQ6932R         | SRQ1631R         | SRQ6831C         | SRQ5730C         | SRQ211H      |
|--|------------------------|------------------|------------------|------------------|------------------|--------------|
| Reproduction system                                      | 2-way component system | Multiaxial 3-way | Multiaxial 3-way | Multiaxial 3-way | Multiaxial 3-way | Dome tweeter |
| PMI-PP cone woofer (mm)                                  | 160                    | 150 x 230        | 160              | 150 x 200        | —                | —            |
| TM-MIPP cone woofer (mm)                                 | —                      | —                | —                | —                | 130 x 180        | —            |
| Pure silk dome mid-range with neodymium magnet(mm)       | —                      | —                | —                | —                | 20               | —            |
| Pure soft dome tweeter with neodymium magnet (mm)        | 20                     | —                | —                | —                | —                | 20           |
| Pure soft dome mid-range with neodymium magnet (mm)      | —                      | 25               | 20               | 20               | —                | —            |
| Dome tweeter (mm)  | —                      | 10               | 8                | 8                | —                | —            |
| Pure silk dome tweeter (mm)                              | —                      | —                | —                | —                | 8                | —            |
| 2-way mounting tweeter (variable angle/surface mounting) | ●                      | ●                | ●                | ●                | ●                | ●            |
| Grille & mesh included                                   | ●                      | ●                | ●                | ●                | ●                | ●            |
| Powerful strontium magnet for dynamic bass response      | ●                      | ●                | ●                | ●                | ●                | ●            |
| In-line -6 dB/oct. crossover network                     | ●                      | ●                | ●                | ●                | ●                | ●            |
| Designed for direct OEM replacement                      | ●                      | ●                | ●                | ●                | ●                | ●            |
| GM fit basket design                                     | ●                      | ●                | ●                | ●                | ●                | ●            |
| Music peak power (Watts)                                 | 280                    | 450              | 280              | 350              | 250              | 200          |
| Continuous power (Watts)                                 | 55                     | 80               | 55               | 60               | 55               | 45           |
| Fs (Hz)  | 75                     | 65               | 75               | 70               | 65               | —            |
| Qts  | 0.90                   | 0.94             | 0.70             | 1.20             | 0.65             | —            |
| Vas (Litres)   | 7.1                    | 15.0             | 8.5              | 12.0             | 22.7             | —            |
| Frequency response (Hz)                                  | 30-35,000              | 25-35,000        | 30-35,000        | 30-35,000        | 35-35,000        | 2,500-35,000 |
| Efficiency (dB/W/m)                                      | 91                     | 93               | 91               | 92               | 92               | 90           |

| FEATURES & SPECIFICATIONS  | SRG6921R      | SRG1621R      | SRG1321R      | SRG1021R      | SRG5721C      | SRG4621C      | SRG921C       |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Reproduction system  | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way | Coaxial 2-way |
| MIPP cone woofer (mm)  | 150 x 230     | 160           | 130           | 100           | 130 x 80      | 100x150       | 90            |
| Metallized PEI cone tweeter (mm)                                 | 60            | —             | —             | —             | —             | —             | —             |
| Metallized PEI balanced-drive tweeter with neodymium magnet (mm) | —             | 25            | 25            | 25            | 25            | 25            | 25            |
| Powerful strontium magnet for dynamic bass response              | ●             | ●             | ●             | ●             | ●             | ●             | ●             |
| Grille & mesh included   | ●             | ●             | ●             | ●             | ●             | ●             | ●             |
| Designed for direct OEM replacement                              | ●             | ●             | ●             | ●             | ●             | ●             | ●             |
| Music peak power (Watts)   | 350           | 180           | 160           | 140           | 250           | 150           | 80            |
| Continuous power (Watts)   | 50            | 35            | 30            | 30            | 45            | 30            | 20            |
| Fs (Hz)  | 60            | 95            | 85            | 100           | 85            | 110           | 190           |
| Qts  | 1.17          | 1.20          | 1.20          | 1.10          | 1.60          | 1.60          | 2.60          |
| Vas (Litres)   | 40.2          | 6.6           | 6.9           | 2.5           | 9.0           | 3.7           | 0.6           |
| Frequency response (Hz)  | 28-32,000     | 30-30,000     | 40-30,000     | 45-30,000     | 35-30,000     | 45-30,000     | 60-30,000     |
| Efficiency (dB/W/m)  | 92            | 91            | 91            | 90            | 91            | 90            | 89            |




# SYSTEM CHART



# ACCESSORIES


**CeNET - iPod INTERFACE**

Interfaces to enjoy iPod with full operation




EA1251 iPod connecting unit  
Compatible with WXZ466MP and HX-D2 (CONNECT via CD CHANGER MODE)

**REMOTE CONTROLS**




RCB-147-600 Infrared joystick remote control




RCB-176 Remote control  
For Audio

**MICROPHONE**




RCB-199 External microphone  
For VZ400A/VX400A/VZ709A/VX709A/MAX686BT/VRX786BT

**BLUETOOTH®**




BLT370 BLUETOOTH audio / mobile-phone transceiver for aux input

**DIRECT iPod CONNECTION**




CCA-723  
CCA-748 iPod video connecting cable  
For VZ709A/VX709A/VZ509A/VX400A/VZ400A/FZ709A/FZ409A/MAX686BT/VRX786BT

**CABLES**

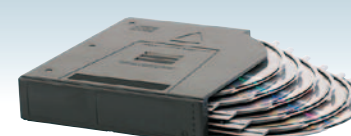


CCA-519 CeNET branch cable: 1 m




CCA-520 CeNET extension cable: 2.5 m  
CCA-521 CeNET extension cable: 0.6 m

**CD MAGAZINE**




CAA-397-800 Spare 6-CD magazine  
For DCZ625

**CCUIPOD2 iPod connecting cable**




CCUIPOD2 iPod connecting cable  
For VX409A/VZ409A/VRX486VD/MAX386VD


**NOISE FILTERS**




NSA-131-200 Alternator noise filter  
Cuts alternator-induced engine noise for max. 10A alternators.




NSA-132-200 Alternator noise filter  
Cuts alternator-induced engine noise for max. 30A alternators.



NSA-133-200 Power-driven parts noise filter  
Eliminates noise caused by electric motors such as wipers, washer or heater.



NSA-134-200 Electric switching noise filter  
Eliminates electric switching noise produced by electric fuel injection systems or when turn indicators or stop lights operate.



NSA-135-200 Ignition noise reduction filter  
Eliminates buzzing or crackling produced by the car ignition.



# Multimedia station feature comparisons

|  | VX709A                               | VZ709A                               | VZ509A                               | VX400A                               | VZ400A                               | VX409A                    | VZ409A          |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------|-----------------|
| <b>MEDIA</b>   |                                      |                                      |                                      |                                      |                                      |                           |                 |
| DVD±R/DVD±RW/CD-R/CD-RW ready                        | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Compressive audio media via disc slot                | MP3 (CD/DVD)                         | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
|  | WMA (CD/DVD)                         | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
|  | AAC (CD/DVD)                         | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| USB  | MP3                                  | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
|  | WMA                                  | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
|  | AAC                                  | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| <b>Built-in Bluetooth</b>                            |                                      |                                      |                                      |                                      |                                      |                           |                 |
| Handsfree profile (HFP)                              | ●                                    | ●                                    | -                                    | ●                                    | ●                                    | -                         | -               |
| Audio-streaming and Remote-control (A2DP & AVRCP)    | ●                                    | ●                                    | -                                    | ●                                    | ●                                    | -                         | -               |
| <b>TUNER</b>   |                                      |                                      |                                      |                                      |                                      |                           |                 |
| Bands  | FM3/AM2                              | FM3/AM2                              | FM3/AM2                              | FM3/AM1                              | FM3/AM1                              | FM3/AM1                   | FM3/AM1         |
| Number of presets                                    | 24/16                                | 24/16                                | 18/12                                | 36/12                                | 36/12                                | 18/6                      | 18/6            |
| Variable bandwidth                                   | ●                                    | ●                                    | -                                    | -                                    | -                                    | -                         | -               |
| <b>AUDIO</b>   |                                      |                                      |                                      |                                      |                                      |                           |                 |
| BBE MP   | -                                    | -                                    | ●                                    | -                                    | -                                    | -                         | -               |
| Beat EQ  | -                                    | -                                    | ●                                    | -                                    | -                                    | -                         | -               |
| Subwoofer control                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| 24bit D/A converter                                  | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Sound Restorer                                       | -                                    | -                                    | ●                                    | -                                    | -                                    | -                         | -               |
| Z-Enhancer Plus sound customisation                  | -                                    | -                                    | -                                    | -                                    | -                                    | -                         | -               |
| Digital Z-Enhancer sound customisation               | -                                    | -                                    | -                                    | -                                    | -                                    | -                         | -               |
| Z-Enhancer sound customisation                       | -                                    | -                                    | -                                    | -                                    | -                                    | -                         | -               |
| Digital time alignment control                       | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| X-over   | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Parametric equaliser                                 | 3 bands                              | 3 bands                              | 3 bands                              | 2 bands                              | 2 bands                              | -                         | -               |
| Built-in HPF   | 50Hz / 80Hz / 120Hz / THROUGH        | 50Hz / 80Hz / 120Hz / THROUGH        | 60Hz / 90Hz / 120Hz / THROUGH        | -                                    | -                                    | -                         | -               |
| Built-in LPF   | 50Hz / 80Hz / 120Hz / THROUGH        | 50Hz / 80Hz / 120Hz / THROUGH        | 60Hz / 90Hz / 120Hz / THROUGH        | ●                                    | ●                                    | -                         | -               |
| MAGNA BASS EX  | ●                                    | ●                                    | ●                                    | -                                    | -                                    | -                         | -               |
| Built-in amplifier canceller                         | ●                                    | ●                                    | ●                                    | -                                    | -                                    | -                         | -               |
| Shock proof memory                                   | ●                                    | ●                                    | ●                                    | -                                    | -                                    | -                         | -               |
| Power output   | 4 x 50W                              | 4 x 50W                              | 4 x 50W                              | 4 x 40W                              | 4 x 40W                              | 4 x 40W                   | 4 x 40W         |
| Rated power output (+B=14.4V)                        | 4 x 20W                              | 4 x 25W                              | 4 x 19W                              | 4 x 20W                              | 4 x 20W                              | 4 x 18W                   | 4 x 18W         |
| <b>APPEARANCE</b>                                    |                                      |                                      |                                      |                                      |                                      |                           |                 |
| Full-loading / Motorised sloping console             | Motorised sloping console            | Full-Loading                         | Full-Loading                         | Motorised sloping console            | Full-Loading                         | Motorised sloping console | Full-Loading    |
| Tilt   | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Touch panel control                                  | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Display size   | 7" LCD                               | 7" LCD                               | 7" LCD                               | 6.5" LCD                             | 7" LCD                               | 6.5" LCD                  | 7" LCD          |
| Character display                                    | QVGA                                 | QVGA                                 | QVGA                                 | QVGA                                 | QVGA                                 | QVGA                      | QVGA            |
| Adjustable display contrast/brightness               | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Dimmer   | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Wallpaper Customisation                              | ● (4-pattern)                        | ● (4-pattern)                        | -                                    | -                                    | -                                    | -                         | -               |
| <b>CONNECTIONS</b>                                   |                                      |                                      |                                      |                                      |                                      |                           |                 |
| Phone mute   | -                                    | -                                    | ●                                    | -                                    | -                                    | ●                         | ●               |
| Video line-in  | 1                                    | 1                                    | 2                                    | 2                                    | 2                                    | 1                         | 1               |
| Video line-out                                       | 1                                    | 1                                    | 1                                    | 1                                    | 1                                    | 1                         | 1               |
| Auxiliary audio input                                | 2ch                                  | 2ch                                  | 2ch x 2                              | 2ch x 2                              | 2ch x 2                              | 2ch                       | 2ch             |
| Audio input sense                                    | ● (Low/Mid/Hi)                       | ● (Low/Mid/Hi)                       | ● (Low/Mid/Hi)                       | ● (Low/Mid/Hi)                       | ● (Low/Mid/Hi)                       | -                         | -               |
| Audio pre-out voltage                                | 2V                                   | 2V                                   | 2V                                   | 2V                                   | 2V                                   | 4V                        | 4V              |
| Audio pre-out  | F2ch+R2ch+SW2ch                      | F2ch+R2ch+SW2ch                      | F2ch+R2ch+SW2ch                      | F2ch+R2ch+SW2ch                      | F2ch+R2ch+SW2ch                      | F2ch+R2ch+SW2ch           | F2ch+R2ch+SW2ch |
| Audio pre-out for 2-ZONE                             | 2ch                                  | 2ch                                  | -                                    | -                                    | -                                    | -                         | -               |
| CCD camera input                                     | ● (Via video line-in)                | ● (Via video line-in)                | ● (Via video line-in)                | ● (Via video line-in)                | ● (Via video line-in)                | -                         | -               |
| <b>EXTENSION</b>                                     |                                      |                                      |                                      |                                      |                                      |                           |                 |
| iPod direct connector                                | -                                    | -                                    | -                                    | -                                    | -                                    | ● (CCUIPOD2)              | ● (CCUIPOD2)    |
| iPod direct control via USB                          | ● (CCA723/CCA748 for Video playback) | ● (CCA723/CCA748 for Video playback) | ● (CCA723/CCA748 for Video playback) | ● (CCA723/CCA748 for Video playback) | ● (CCA723/CCA748 for Video playback) | -                         | -               |
| AUX Bluetooth unit BLT370 ready                      | -                                    | -                                    | -                                    | -                                    | -                                    | ●                         | ●               |
| <b>OTHERS</b>  |                                      |                                      |                                      |                                      |                                      |                           |                 |
| Remote controller included                           | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Remote control sensor                                | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| OEM steering wheel remote wired interface capability | ●                                    | ●                                    | ●                                    | ●                                    | ●                                    | ●                         | ●               |
| Detachable control panel                             | -                                    | ●                                    | -                                    | -                                    | -                                    | -                         | -               |
| CATS anti-theft system                               | ●                                    | -                                    | ●                                    | ●                                    | ●                                    | -                         | -               |

# Main units feature comparisons

|   | HX-D2          | CZ500A                   | DXZ786USB  | DXZ586USB  | FZ709A                  | FZ409A                  | FB286BTB/276BT    | CZ309A                            | CZ200A                   | CZ100A                   | CX609A                  | DUZ386MP             | DUB276MPW/DUB276MP | WXZ466MP          |
|---|----------------|--------------------------|--|--|-------------------------|-------------------------|-------------------|-----------------------------------|--------------------------|--------------------------|-------------------------|----------------------|--------------------|-------------------|
| <b>MEDIA</b>  |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| CD-R/RW ready   | ●              | ●                        | ●  | ●  | -                       | -                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| Compressive audio media via (MP3 / WMA / AAC) disc slot | MP3            | ●                        | ●  | ●  | -                       | -                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
|   | WMA            | ●                        | ●  | ●  | -                       | -                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
|   | AAC            | ●                        | ●  | ●  | -                       | -                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| USB   | MP3            | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | -                        | ●                       | ●                    | ●                  | -                 |
|   | WMA            | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | -                        | ●                       | ●                    | ●                  | -                 |
|   | AAC            | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | -                        | ●                       | ●                    | ●                  | -                 |
| WMDRM10*  | -              | -                        | ●  | ●  | -                       | -                       | -                 | -                                 | -                        | -                        | ●                       | ●                    | -                  |                   |
| SD Slot   | ●              | -                        | -  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  |                   |
| <b>Built-in Bluetooth</b>                               |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| Handsfree profile (HFP)                                 | -              | ●                        | -  | -  | ●                       | -                       | ●                 | -                                 | -                        | -                        | ●                       | -                    | -                  | -                 |
| Audio-streaming and Remote-control (A2DP & AVRCP)       | -              | ●                        | -  | -  | ●                       | -                       | ●                 | -                                 | -                        | -                        | ●                       | -                    | -                  | -                 |
| <b>TUNER</b>  |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| Station presets   | 18FM/6AM       | 18FM/6AM                 | 18FM/6AM   | 18FM/6AM   | 18FM/6AM                | 18FM/6AM                | 18FM              | 18FM/6AM                          | 18FM/6AM                 | 18FM/6AM                 | 18FM/6AM                | 18FM/6AM             | 18FM/6AM           | 18FM/6AM          |
| Variable bandwidth                                      | -              | ●                        | ●  | ●  | -                       | -                       | -                 | -                                 | ●                        | ●                        | -                       | -                    | -                  | -                 |
| <b>AUDIO</b>  |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| BBE MP  | -              | -                        | -  | -  | ●                       | ●                       | -                 | -                                 | -                        | -                        | ●                       | -                    | -                  | -                 |
| Beat EQ   | -              | ●                        | ●  | ●  | ●                       | ●                       | -                 | -                                 | ●                        | ●                        | ●                       | -                    | -                  | -                 |
| Subwoofer control                                       | -              | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | ●                        | ●                       | -                    | -                  | -                 |
| 24bit D/A converter                                     | ●              | -                        | ●  | ●  | ●                       | ●                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| Sound Restorer  | -              | -                        | ●  | ●  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| Z-Enhancer Plus sound customisation                     | -              | -                        | -  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | ●                  | -                 |
| Digital Z-Enhancer sound customisation                  | -              | -                        | ●  | ●  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | ●                 |
| Z-Enhancer sound customisation                          | -              | -                        | -  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | ●                 |
| Digital time alignment control                          | ●              | -                        | ●  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | (LPO)             |
| X-over  | ●              | ●                        | ●  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| Parametric equaliser                                    | 5 bands        | 3 bands                  | 3 bands  | 2 bands  | 3 bands                 | 3 bands                 | -                 | 2 bands                           | 3 bands                  | 3 bands                  | 3 bands                 | 2 bands              | -                  | (9 band G-EQ)     |
| MAGNA BASS EX depends on volume level                   | -              | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| Built-in HPF  | ●              | -                        | 50Hz/80Hz/120Hz/THROUGH (available for pre-out and internal AMP)             | 50Hz/80Hz/120Hz/THROUGH (available for pre-out and internal AMP) | 60Hz/90Hz/120Hz/THROUGH | 60Hz/90Hz/120Hz/THROUGH | -                 | 120Hz/THROUGH (ONLY SPEAKER LINE) | -                        | -                        | 60Hz/90Hz/120Hz/THROUGH | -                    | -                  | -                 |
| Built-in LPF  | ●              | 80Hz/120Hz/160Hz/THROUGH | THROUGH/18Hz/25Hz/100Hz STEP   | 50Hz/80Hz/120Hz/THROUGH  | 60Hz/90Hz/120Hz/THROUGH | 60Hz/90Hz/120Hz/THROUGH | -                 | 50Hz/80Hz/120Hz/THROUGH           | 80Hz/120Hz/160Hz/THROUGH | 80Hz/120Hz/160Hz/THROUGH | 60Hz/90Hz/120Hz/THROUGH | -                    | -                  | -                 |
| Built-in amplifier canceller                            | -              | -                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | -                        | -                        | ●                       | -                    | -                  | -                 |
| Power output  | -              | 4 x 50 W                 | 4 x 53W  | 4 x 53W  | 4 x 50W                 | 4 x 50W                 | 4 x 50W           | 4 x 50W                           | 4 x 45W                  | 4 x 45W                  | 4 x 50W                 | 4 x 50W              | 4 x 50W            | 4 x 50W           |
| Rated power (+B=14.4V)                                  | -              | 4 x 25W                  | 4 x 25W  | 4 x 25W  | 4 x 25W                 | 4 x 25W                 | 4 x 25W           | 4 x 20W                           | 4 x 21W                  | 4 x 22W                  | 4 x 20W                 | 4 x 25W              | 4 x 25W            | 4 x 25W           |
| <b>APPEARANCE</b>                                       |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| Motorised sloping console/Flip-down console             | -              | -                        | Motorised sloping console  | Flip-down console  | -                       | -                       | Flip-down console | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| Display and button illumination colour                  | -              | -                        | 728 variable   | -  | -                       | -                       | 728 (face panel)  | -                                 | -                        | -                        | 728 variable            | 728 variable         | 728 variable       | -                 |
| Character display                                       | VF display     | 13 seg x 10 x 2-line     | full dot   | 13 seg x 10 x 2-line   | Full dot OE display     | Full dot OE display     | Dot Matrix        | 13seg/8                           | 13seg/10                 | 13seg/10                 | 13 seg x 10 x 2-line    | 13 seg x 10 x 2-line | 13 seg x 8         | (VFD)             |
| Contrast adjustment                                     | -              | -                        | ●  | ●  | ●                       | ●                       | ●                 | -                                 | -                        | -                        | ●                       | ●                    | ●                  | ●                 |
| Screensaver   | -              | ●                        | ●  | ●  | ●                       | ●                       | ●                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| Message information                                     | -              | -                        | ●  | ●  | ●                       | ●                       | ●                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| Dimmer (Display/Buttons)                                | -              | ● / -                    | ●  | ●  | ●                       | ●                       | ●                 | ● / -                             | ● / -                    | ● / -                    | ●                       | ●                    | ●                  | ●                 |
| Rotary volume control                                   | ●              | ●                        | ●  | ●  | -                       | -                       | ●                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| SLIDETRAK for dynamic operation                         | -              | -                        | ●  | ●  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| Touch sensor operation                                  | -              | -                        | -  | -  | ●                       | ●                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| <b>CONNECTIONS</b>                                      |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| Phone mute  | -              | -                        | ●  | ●  | -                       | ●                       | -                 | ●                                 | ●                        | ●                        | -                       | ●                    | ●                  | ●                 |
| Auxiliary audio input                                   | 2ch x 2        | Front                    | Rear 2ch   | Rear 2ch   | Rear mini jack          | Rear mini jack          | Rear 2ch          | Front                             | Front                    | Front                    | Front                   | Front                | Front              | Rear 2ch          |
| Audio input sense                                       | ● (Low/Mid/Hi) | ● (Low/Mid/Hi)           | ● (Low/Mid/Hi)   | ● (Low/Mid/Hi)   | ● (Low/Mid/Hi)          | ● (Low/Mid/Hi)          | -                 | ● (Low/Mid/Hi)                    | ● (Low/Mid/Hi)           | ● (Low/Mid/Hi)           | ● (Low/Mid/Hi)          | ● (Low/Mid/Hi)       | ● (Low/Mid/Hi)     | ● (Low/Mid/Hi)    |
| Audio Pre-out voltage                                   | Max. 8V        | 4V                       | 6V   | 2V   | 4V                      | 2V                      | 2V                | 2V                                | 2V                       | 2V                       | 2V                      | 2V                   | 2V                 | 2V                |
| Audio Pre-out   | 8ch            | F2ch+R2ch+SW2ch          | F2ch+R2ch+SW2ch (NORMAL) / F2ch+R2ch+SW2ch (3-way) / F2ch+R2ch+SW2ch (2-way) | F2ch+R2ch+SW2ch  | F2ch+R2ch+SW2ch         | F2ch+R2ch+SW2ch         | R2ch              | F2ch+R2ch+SW2ch                   | F2ch+R2ch+SW2ch          | F2ch+R2ch+SW2ch          | F2ch+R2ch+SW2ch         | F2ch+R2ch            | F2ch+R2ch          | F2ch+R2ch         |
| <b>EXTENSION</b>  |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| iPhone COMPATIBLE                                       | -              | ●                        | -  | -  | -                       | -                       | -                 | -                                 | ●                        | -                        | -                       | -                    | -                  | -                 |
| iPod direct control via USB                             | -              | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | -                        | ●                       | ●                    | ●                  | ●                 |
| CaNET CD changer control                                | -              | -                        | ●  | ●  | ●                       | ●                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| CaNET iPod interface ready                              | ● (EA-1251)    | -                        | -  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | ● (EA-1251)       |
| AUX Bluetooth unit BLT370 ready                         | -              | -                        | ●  | ●  | -                       | -                       | -                 | ●                                 | ●                        | ●                        | -                       | ●                    | ●                  | -                 |
| <b>OTHERS</b>   |                |                          |  |  |                         |                         |                   |                                   |                          |                          |                         |                      |                    |                   |
| Remote controller included                              | ●              | (RCB176)                 | ●  | ●  | ●                       | ●                       | optional          | -                                 | ●                        | optional                 | optional                | optional             | optional           | (RCB176) optional |
| Remote control sensor                                   | ●              | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| OEM steering wheel remote wired interface capability    | -              | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| Detachable control panel                                | -              | ●                        | ●  | ●  | ●                       | ●                       | -                 | ●                                 | ●                        | ●                        | ●                       | ●                    | ●                  | ●                 |
| CATS anti-theft system                                  | -              | -                        | -  | -  | -                       | -                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |
| Blinking LED  | -              | -                        | ●  | ●  | ●                       | ●                       | -                 | -                                 | -                        | -                        | -                       | -                    | -                  | -                 |

\* For video playback, optional CCA723/CCA748 cable and external universal monitor required.  
 \* Playback of WMDRM content from a PC on the in-vehicle unit is through a compatible portable audio player.



# SPECIFICATIONS

## Multimedia Stations

|                                      | VX709A   | VZ709A   | VZ509A   | VZ400A   | VX400A   | VZ409A   | VX409A   |
|--------------------------------------|--|--|--|--|--|--|--|
| <b>MONITOR SECTION</b>               |  |  |  |  |  |  |  |
| Screen Size (W x H), mm              | 155.4 x 81.6 (7 inch)                            | 152.0 x 85.0 (7 inch)                            | 152.0 x 85.0 (7 inch)                            | 154 X 87 (7inch)                                 | 143 x 79 (6.5 inch)                              | 153 x 87 (7 inch)                                | 141 x 78 (6.5 inch)                              |
| Aspect Ratio                         | 17:9   | 16:9   | 16:9   | 16:9   | 16:9   | 16:9   | 16:9   |
| Display Type                         | Transmission type TN liquid crystal display      | Transmission type TN liquid crystal display      | Transmission type TN liquid crystal display      | Transmission type TN liquid crystal display      | Transmission type TN liquid crystal display      | Transmission type TN liquid crystal display      | Transmission type TN liquid crystal display      |
| Drive Principle                      | TFT (thin-film transistor) active matrix display | TFT (thin-film transistor) active matrix display | TFT (thin-film transistor) active matrix display | TFT (thin-film transistor) active matrix display | TFT (thin-film transistor) active matrix display | TFT (thin-film transistor) active matrix display | TFT (thin-film transistor) active matrix display |
| Number of Pixels                     | 336,960  | 336,960  | 336,960  | 336,960  | 280,800  | 336,960  | 336,960  |
| RCA Video Input                      | 1.0 ± 0.2 Vp-p (input impedance 75 Ω)            | 1.0 ± 0.2 Vp-p (input impedance 75 Ω)            | 1.0 ± 0.2 Vp-p (input impedance 75 Ω)            | 1.0 Vp-p (input impedance 75Ω)                   | 1.0 Vp-p (input impedance 75Ω)                   | 1.0 ± 0.2 Vp-p (input impedance 75 Ω)            | 1.0 ± 0.2 Vp-p (input impedance 75 Ω)            |
| RCA Audio Input                      | 130 ± 60 mVms (input impedance 10kΩ or greater)  | 130 ± 60 Vms (input impedance 10kΩ or greater)   | 130 ± 60 Vms (input impedance 10kΩ or greater)   | 130±60Vms (input impedance 10kΩ or greater)      | 130±60Vms (input impedance 10kΩ or greater)      | 130 ± 60 Vms (input impedance 10 k or greater)   | 130 ± 60 Vms (input impedance 10 k or greater)   |
| <b>TUNER SECTION</b>                 |  |  |  |  |  |  |  |
| Frequency Bands                      |  |  |  |  |  |  |  |
| FM (MHz) 0.05 MHz steps              | 87.5 to 108                                      | 87.5 to 108                                      | 87.5 to 108                                      | 87.0 to 108                                      | 87.0 to 108                                      | 87 to 108  | 87 to 108  |
| AM (kHz) 9 kHz steps                 | 531 to 1,602                                     | 531 to 1,602                                     | 531 to 1,602                                     | 531 to 1,629                                     | 531 to 1,629                                     | 531 to 1,629                                     | 531 to 1,629                                     |
| <b>DVD SECTION</b>                   |  |  |  |  |  |  |  |
| Usable Discs                         | DVD video / DVD±R / RW                           | DVD video / DVD±R / RW                           | DVD video / DVD±R / RW                           | DVD video / DVD±R/RW                             | DVD video / DVD±R/RW                             | DVD video / DVD±R / RW                           | DVD video / DVD±R / RW                           |
| Frequency Response (Hz)              | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000(0±3db)                              | 20 to 20,000(0±3db)                              | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000 (+1 dB, -1 dB)                      |
| Distortion (%)                       | 0.006  | 0.01   | 0.006  | 0.05   | 0.05   | 0.006  | 0.006  |
| <b>CD SECTION</b>                    |  |  |  |  |  |  |  |
| S/N Ratio (dB) 1 kHz                 | 100  | 100  | 100  | 80   | 80   | -  | -  |
| Frequency Response (Hz)              | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000 (+1 dB, -1 dB)                      | 20 to 20,000(0±3db)                              | 20 to 20,000(0±3db)                              | 20 to 20,000 (+1 dB, -3 dB)                      | 20 to 20,000 (+1 dB, -3 dB)                      |
| Dynamic Range (dB) 1 kHz             | 100  | 100  | 100  | 80   | 80   | -  | -  |
| Harmonic Distortion (%)              | 0.006  | 0.01   | 0.006  | 0.05   | 0.05   | -  | -  |
| <b>AUDIO SECTION</b>                 |  |  |  |  |  |  |  |
| Power Output (DIN45324, *B = 14.4 V) | 4 x 27 W   | 4 x 27 W   | 4 x 26 W   | 4 x 20W  | 4 x 20W  | 4 x 20 W   | 4 x 20 W   |
| <b>GENERAL</b>                       |  |  |  |  |  |  |  |
| Dimensions (W x H x D), mm           | 178 x 100 x 160                                  | 178 x 50 x 165                                   | 178 x 50 x 165                                   | 165 x 50 x 165                                   | 178 x 100 x 166                                  | 178 x 50 x 165                                   | 178 x 100 x 165                                  |
| Weight (kg)                          | 2.7  | 2.4  | 2.4  | 2.4  | 2.36   | 2.15   | 2.8  |
| Power Consumption                    | 4.0 A (at 1 W)                                   | 4.0 A (at 1W)                                    | 3.5 A (at 1W)                                    | 3.3A (at 1W)                                     | 3.3A (at 1W)                                     | 4.0 A (at 1W)                                    | 4.0 A (at 1W)                                    |
| Power Requirement                    | 14.4 V DC (10.8 ~ 15.6 V)                        | 14.4 V DC (10.8 ~ 15.6 V)                        | 14.4 V DC (10.8 ~ 15.6 V)                        | 14.4 V DC (10.8 ~ 15.6 V)                        | 14.4 V DC (10.8 ~ 15.6 V)                        | 14.4 V DC (10.8 ~ 15.6 V)                        | 14.4 V DC (10.8 ~ 15.6 V)                        |
| Speaker Impedance                    | 4 Ω (4 Ω to 8 Ω allowable)                       | 4 Ω (4 Ω to 8 Ω allowable)                       | 4 Ω (4 Ω to 8 Ω allowable)                       | 4 Ω (4 Ω to 8 Ω allowable)                       | 4Ω (4Ω to 8Ω allowable)                          | 4 Ω (4 Ω to 8 Ω allowable)                       | 4 Ω (4 Ω to 8 Ω allowable)                       |

## Radio CD Receivers

|  | HX-D2          | DXZ786USB               | DXZ586USB               | CZ500A                  | FZ709A                  | FZ409A                  | FB286BTB/<br>FB276BT      |
|--|----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|
| <b>TUNER SECTION</b>                   |                |                         |                         |                         |                         |                         |                           |
| Frequency bands                        |                |                         |                         |                         |                         |                         |                           |
| FM: (MHz) 0.05MHz steps                | 89.0 to 108    | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108               |
| AM: (kHz) 9 kHz steps                  | 531 to 1,629   | 531 to 1,602            | 531 to 1,602            | 531 to 1,629            | 531 to 1,602            | 531 to 1,602            | -                         |
| FM usable sensitivity (dBf)            | 9              | 9                       | 9                       | 8                       | 9                       | 9                       | -                         |
| FM 50 dB quieting sensitivity (dBf)    | 15             | 15                      | 15                      | 17                      | 15                      | 15                      | -                         |
| FM alternate channel selectivity (dBf) | 70             | 70                      | 70                      | 70                      | 70                      | 70                      | -                         |
| FM stereo separation @ 1 kHz (dBf)     | 35             | 35                      | 35                      | 30                      | 35                      | 35                      | -                         |
| FM stereo freq. resp. @ ±3 dB (Hz)     | 30 to 15,000   | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | -                         |
| <b>CD SECTION</b>                      |                |                         |                         |                         |                         |                         |                           |
| S/N ratio (dB)                         | 112            | 100                     | 100                     | 80                      | 90                      | 90                      | -                         |
| Frequency response (Hz)                | 5 to 20,000    | 5 to 20,000             | 5 to 20,000             | 20 to 20,000            | 5 to 20,000             | 5 to 20,000             | -                         |
| Dynamic range (dB)                     | 100            | 95                      | 95                      | 80                      | 85                      | 85                      | -                         |
| Harmonic distortion (%)                | 0.003          | 0.01                    | 0.01                    | 0.1                     | 0.01                    | 0.01                    | -                         |
| <b>AUDIO SECTION</b>                   |                |                         |                         |                         |                         |                         |                           |
| Power output (DIN45324, *B = 14.4 V)   |                | 4 x 31 W                | 4 x 31 W                | 4 x 25W                 | 4 x 25W                 | 4 x 25W                 | 4 x 25 W                  |
| <b>GENERAL</b>                         |                |                         |                         |                         |                         |                         |                           |
| Dimensions (W x H x D), mm             | 178 x 50 x 178 | 178 x 50 x 156          | 178 x 50 x 158          | 178x50x163              | 178 x 50 x 157          | 178 x 50 x 157          | 178 x 50 x 152            |
| Remote control (W x H x D), mm         | 52 x 113 x 12  | 44 x 113 x 11           | 44 x 113 x 11           | 44x113x11               | 44 x 113 x 11           | OP (44 x 113 x 11)      | -                         |
| Weight (kg)                            | 1.7            | 1.6                     | 1.6                     | 1.30                    | 0.827                   | 0.827                   | 0.6                       |
| Power consumption: less than           | 1.4 A          | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                     |
| Speaker impedance                      |                | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4 Ω to 8 Ω allowable) |

## Radio CD / Tape Receivers

|  | CZ309A                  | CZ200A                  | CZ100A                  | CX609A                  | DUZ386MP                | DUB276MP/<br>DUB276MPW  | WXZ466MP                |
|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>TUNER SECTION</b>                   |                         |                         |                         |                         |                         |                         |                         |
| Frequency bands                        |                         |                         |                         |                         |                         |                         |                         |
| FM: (MHz) 0.05MHz steps                | 87.0 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             | 87.5 to 108             |
| AM: (kHz) 9 kHz steps                  | 531 to 1,629            | 531 to 1,629            | 531 to 1,629            | 531 to 1,602            | 531 to 1,602            | 532 to 1,602            | 531 to 1,602            |
| FM usable sensitivity (dBf)            | 9                       | 8                       | 8                       | 9                       | 11                      | 11                      | 9                       |
| FM 50 dB quieting sensitivity (dBf)    | 17                      | 17                      | 17                      | 15                      | 17                      | 17                      | 15                      |
| FM alternate channel selectivity (dBf) | 60                      | 60                      | 60                      | 70                      | 60                      | 75                      | 70                      |
| FM stereo separation @ 1 kHz (dBf)     | 30                      | 30                      | 30                      | 35                      | 30                      | 25                      | 35                      |
| FM stereo freq. resp. @ ±3 dB (Hz)     | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            | 30 to 15,000            |
| <b>CD SECTION</b>                      |                         |                         |                         |                         |                         |                         |                         |
| S/N ratio (dB)                         | 100                     | 75                      | 75                      | 90                      | 100                     | 86                      | 90                      |
| Frequency response (Hz)                | 5 to 20,000             | 20 to 20,000            | 20 to 20,000            | 5 to 20,000             | 20 to 20,000            | 11 to 20,000            | 10 to 20,000            |
| Dynamic range (dB)                     | 80                      | 75                      | 75                      | 85                      | 80                      | 88                      | 90                      |
| Harmonic distortion (%)                | 0.03                    | 0.1                     | 0.1                     | 0.01                    | 0.003                   | 0.03                    | 0.01                    |
| <b>AUDIO SECTION</b>                   |                         |                         |                         |                         |                         |                         |                         |
| Power output (+B = 14.4 V)             | 4 x 19W                 | 4 x 21W                 | 4 x 22W                 | 4 x 25W                 | 4 x 25 W                | 4 x 25 W                | 4 x 27 W                |
| <b>GENERAL</b>                         |                         |                         |                         |                         |                         |                         |                         |
| Dimensions (W x H x D), mm             | 178 x 50 x 155          | 178 x 50 x 163          | 178 x 50 x 163          | 178 x 100 x 182.3       | 178 x 100 x 155         | 178 x 100 x 155         | 178 x 100 x 167         |
| Remote control (W x H x D), mm         | 44 x 113 x 11           | OP (44 x 113 x 11)      | OP (44 x 113 x 11)      | OP (44 x 113 x 11)      | 44 x 113 x 13           | 114 x 44 x 12           | 44 x 113 x 13           |
| Weight (kg)                            | 1.16                    | 1.38                    | 1.44                    | 1.53                    | 1.16                    | 1.8                     | 2.2                     |
| Power consumption: less than           | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                   | 1.5 A                   |
| Speaker impedance                      | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) | 4Ω (4Ω to 8Ω allowable) |

## MP3/WMA/AAC/USB Feature

| MODEL  | VZ509A, VZ709A, VX709A   |  |     |     |     |     | VX400A, VZ400A |     |     |     |     |     | CX609A |     |     |     |     |     | DXZ786USB, DXZ586USB, DUZ386MP |     |     |     |     |     | CZ309A |     |     |     |     |     | CZ500A / CZ200A |     |     |     |     |     | CZ100A |     |     |     |  |  | FZ709A, FZ409A |  |  |     |  |  | FB286BTB / FB276BT |
|--|--|--|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|--------|-----|-----|-----|--|--|----------------|--|--|-----|--|--|--------------------|
| MEDIA  | CD / DVD   |  |     | USB |     |     | CD / DVD       |     |     | USB |     |     | CD     |     |     | AAC |     |     | USB                            |     |     | CD  |     |     | AAC    |     |     | USB |     |     | CD              |     |     | AAC |     |     | USB    |     |     | CD  |  |  | AAC            |  |  | USB |  |  | SD                 |
| FILES  | WMA  | MP3  | AAC | WMA | MP3 | AAC | WMA            | MP3 | AAC | WMA | MP3 | AAC | WMA    | MP3 | AAC | WMA | MP3 | AAC | WMA                            | MP3 | AAC | WMA | MP3 | AAC | WMA    | MP3 | AAC | WMA | MP3 | AAC | WMA             | MP3 | AAC | WMA | MP3 | AAC | WMA    | MP3 | AAC | MP3 |  |  |                |  |  |     |  |  |                    |
| <b>FILE SYSTEM</b>   |  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| ISO9660  | LEVEL1   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | LEVEL2   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | LEVEL3   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| ISO9660 EXTENSION  | PLAY FILE NAME   | 64 bytes (VZ509A, VZ709A, VX709A)                |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | PLAY FILE NAME   | 20 Unicode                                       |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| OTHERS   | PLAY FILE NAME   | 64 bytes   |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | PLAY FILE NAME   | 64 bytes   |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| FAT  | APPLE ISO  | -  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | FAT12  | -  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | FAT16  | -  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| FAT32  | FAT32  | -  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | FAT32  | -  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | FAT32  | -  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| <b>FILE DESCRIPTION</b>  |  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| MP3 / MP3+ / MP3   | mp3  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | mp3+   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | MP3+   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | MP3+   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| WMA  | WMA  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | WMA  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | WMA  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | WMA  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| AAC  | AAC  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | AAC  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | AAC  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | AAC  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| <b>SAMPLING FREQUENCY</b>  |  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| MPEG1/2 Audio Layer3   | MPEG1 Layer3   | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | MPEG2 Layer3 (LSF)   | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| MPEG2 Audio Layer3 (LSF)   | MPEG2 Layer3 (LSF)   | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | MPEG2 Layer3 (LSF)   | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| WMA  | WMA  | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | WMA  | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| AAC  | AAC  | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | AAC  | 8, 11,025, 12, 16, 22,05, 24, 32, 44.1, 48 (kHz) |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| <b>BITRATE</b>   |  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| MPEG1/2 Audio Layer3   | MPEG1/2 Audio Layer3   | 32, 44.1, 48 (Kbps)                              |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | MPEG1/2 Audio Layer3   | 32, 44.1, 48 (Kbps)                              |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| MPEG2 Audio Layer3 (LSF)   | MPEG2 Audio Layer3 (LSF)   | 8, 160 (Kbps)                                    |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | MPEG2 Audio Layer3 (LSF)   | 8, 160 (Kbps)                                    |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| WMA  | WMA  | 8, 160 (Kbps)                                    |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | WMA  | 8, 160 (Kbps)                                    |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| AAC  | AAC  | 8, 160 (Kbps)                                    |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | AAC  | 8, 160 (Kbps)                                    |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| <b>OTHERS</b>  |  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| DIRECTORY DEPTH  | Max 8 levels   |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| FILENAME NUMBER  | 16 bytes   |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| TOTAL FILE NUMBER  | 999  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| TOTAL FOLDER NUMBER  | 255  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| FILE NUMBER via FOLDER   | 255  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| ID3 TAG  | ver.1.x  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | ver.2.x  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | TITLE  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | ARTIST   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| WMA TAG  | ALBUM  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | TITLE  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | ARTIST   | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| VBR  | VBR  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
|  | VBR  | ●  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| <b>CODEC</b>   |  |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |
| Support for WMA7, WMA8, WMA9, WMA9.1, Lossless voice Not supported | Support for WMA7, WMA8, WMA9, WMA9.1, Lossless voice Not supported |  |     |     |     |     |                |     |     |     |     |     |        |     |     |     |     |     |                                |     |     |     |     |     |        |     |     |     |     |     |                 |     |     |     |     |     |        |     |     |     |  |  |                |  |  |     |  |  |                    |

- \* When a USB memory device is composed of two or more drives, only one of the drives will be detected.
- \* USB memory devices with security functions cannot be played.
- \* Please see our website for iPod models that can be connected.
- \* Playback is not possible with some USB devices depending on their type and configuration.





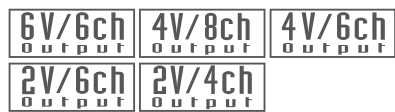
**2-Zone entertainment**  
Function that allows people in the front and back seats to enjoy separate visual or audio entertainment sources.



**24-bit D/A converter**  
This sophisticated Digital-to-Analogue converter converts the 16-bit digital data on compact discs to a full 24-bit format for the utmost in resolution and clarity. It combines the qualities of the 1-bit D/A converter with wider dynamics and extremely low noise, opening up a whole new world of three-dimensional sound rich in musical nuances and instrumental harmonics.



**6-disc CD changer**  
The built-in 6-disc CD changer lets you enjoy your favourite music for long periods of time without the need for switching CDs. So now on long drives, you can listen to your favourite music albums to your heart's content.



**Audio pre-out**  
RCA output terminals for connecting with external amplifiers. With external amplifiers, you can build up a system with more powerful output and higher sound quality. Especially 6V or 4V output can drive amplifiers powerfully and helps to get pure sound.



**AUX input**  
External RCA audio inputs. They can be connected to equipment, such as a video game or portable player, with full control of the sound from your car audio system.



**BBE MP (Minimised Polynomial Non-Linear Saturation)**  
Restores the harmonics that are lost during compression of digital audio files, thereby reproducing the warmth, details and nuances of the original source.



**Beat EQ**  
Provides 3 preset equalisation patterns (BASS BOOST, IMPACT, and EXCITE) and lets the user customise the steepness and range of the bass, midrange and treble portions of each pattern.



**Bluetooth® ready**  
Bluetooth compatibility provides the ability to wirelessly connect a variety of peripheral equipment including mobile phones. Main units offering this feature allow for hands-free mobile phone communication as well as audio streaming of files stored in the phone's memory, listenable through your car's audio system.



**CD**  
This symbol shows compatibility with compact discs.



**CD text**  
When a CD text compatible CD is played, text information such as artist name or music title is shown on the display.



**CeNET**  
Original bus system developed by Clarion, which enables high-speed data transfer and high quality sound transmission. Your system can be upgraded with optional devices such as a CD changer, iPod interface and so on.



**Digital Z-Enhancer**  
3 equalising patterns can be selected from the DSP to boost either the bass or the treble separately, or both together. Also, 3 additional gain adjustment patterns provide a total of 9 equalising patterns that you can change to suit your favourite music.



**Dolby Digital**  
Technology used in DVDs for encoding and reproducing 5.1-channel surround sound. Main units that support this technology are capable of reproducing 5.1 surround through an appropriately equipped car speaker system, for cinematic sound enjoyment when viewing movies and other content.



**DVD video**  
The unit is compatible with the DVD video format so you can watch DVD software in your car.



**Flip-down console**  
Clarion has designed the CD insertion slot to sit behind the front panel in order to leave sufficient space for a large, easy-to-read display. Depending on the model, the front panel slides down at the press of a button or can be released and folded down mechanically.



**Front AUX input**  
What could be easier? The front jack lets you easily connect the line outputs on portable audio players or other devices to your Clarion system for high-quality sound reproduction.



**Low Pass and High Pass Filters**  
Filters that allow signals to pass below a crossover frequency (LPF) or above a crossover frequency (HPF). This optimises the audio signal for high or low frequency reproduction when a sub-woofer or tweeters are part of the system.



**LPO (Listening Position Optimiser)**  
The WXZ466MP and DFZ667MC's Listening Position Optimiser uses digital processing to virtually adjust the speaker distance, enabling sound stage settings to accommodate a wide variety of different types of vehicles. So no matter what type of car you drive, you can count on Clarion to drive your sound with high precision and realistic presence.



**Magna Bass EX**  
This bass enhancer is designed to boost ultra-low frequencies around 50 Hz compared to conventional loudness circuits operating around 100 Hz. The amount of boost depends on the volume level.



**MOS-FET**  
MOS-FET (Metal Oxide Semiconductor Field Effect Transistor), well known as a superior electronic transistor in audio systems, is used in the final stage of the amplifier. Since MOS-FET is a highly efficient element with a linear operation curve, it dramatically improves S/N in the high frequency range, which is especially susceptible to noise. This results in smooth and rich expressive capabilities, and sound reproduction infinitely close to the original source.



**OEL Display**  
By using an OEL (Organic Electroluminescence) display driven by film transistors, this front panel display can deliver images that are smoother than conventional LCD, making it possible to show high quality graphics.



**OEM remote ready**  
This mark indicates the unit is ready to connect to a Clarion OEM steering wheel remote control interface. Thanks to the interface, you can still use the radio switches mounted on the steering wheel of your car to control most audio parameters. Two types of interfaces – direct connection and infrared – are available depending on the type of main unit.



**Parametric EQ**  
Allows equalising control of the frequency curve for customisation of the sound character according to the speakers used and the acoustic properties in the car.



**SD memory card slot**  
This enables users to play MP3/WMA files from their SD memory cards through the system.



**SLIDETRACK**  
This novel interface breaks away from traditional controlling done by turning knobs, allowing for intuitive operation. Almost all system operations can be made with the SLIDETRACK.



**Sloping console**  
The face panel of the sloping console slides down gracefully to reveal the CD loading slot. The smooth operation of the console presents a serenely elegant driving scene.



**Sound Restorer**  
The Sound Restorer extracts the harmonic components from compressed data such as MP3, WMA, and AAC, complementing the skipped and reduced sound components to achieve almost the same acoustic expression during playback as the original source.



**Time Alignment control**  
Lets you easily adjust the time delay among the speakers to best suit your interior simply by choosing the car type (sedan, mini-van, etc.).



**Touch panel control**  
Based on pure H.M.I., it provides an intuitive and easy-to-use alternative to conventional buttons and knobs. Convenient one-touch menus make it easy to operate complex multimedia functions and control connected components. Call up programmes, select stations, input titles or control audio and video output — all with just the touch of a finger.



**Touch sensor operation**  
Electrostatic operation buttons on the screen itself provide an advanced user-interface, where touch functions are changed to coincide with the graphically displayed function icons. Hard-wired buttons are minimised.



**USB Memory Slot**  
The USB port enables playback of WMA/MP3 or even AAC files (depending on the source unit) stored on a connected USB memory card or USB-compatible player.



**Variable colour display**  
This LCD display lets you mix the RGB (Red/Green/Blue) level to create the background colour. The control buttons on the faceplate automatically change colour to match the display.



**Video CD**  
This symbol shows compatibility with Video CD.



**WMA/MP3**  
With decoders for both MP3 and WMA (Windows Media Audio), you can play either type of ripped or downloaded audio files. Also supports ID3 tags for display of meta file information. With digital compression, these formats enable up to 12 hours of music to be condensed onto a single CD-R/RW while delivering CD-level quality.

**AAC**  
AAC is an abbreviation for Advanced Audio Coding, a next-generation compression format. It boasts a high compression ratio 1.4 times that of MP3, while achieving sound quality that almost rivals that of commercial music CDs.



**Z-Enhancer**  
Three types of sound quality patterns are pre-set for easy selection. Boost the bass only, the treble only, or both, with the level of boost adjustable by the user.



**Z-Enhancer Plus**  
Same functions as standard Z-Enhancer, but in addition, all units with "Z-Enhancer Plus" are designed for 2-band parametric equalisation.



**Air compression**  
The exhaust back pressure is compressed once inside the cabinet to boost the bass sound.



**Aluminium-coated Polypropylene cone**  
High-rigidity, lightweight polypropylene is used as the cone material.



**Bass Extender**  
A low-range sound reinforcement circuit that boosts the bass according to the volume level, making it easier to perceive by the human ear.



**Counter drive**  
This ingenious mount design enables a large calibre 17 cm (6-3/4") woofer to fit inside a slim and compact speaker housing.



**Digital ready**  
Featuring higher power handling, Clarion's Digital Ready speakers reproduce the wide dynamic range of Compact Discs and other digital media.



**Dual voice coil**  
Dual voice coils deliver perfect playback of large-amplitude bass. These coils also provide high sensitivity and excellent performance for large input sounds.



**Fibreglass cone**  
Fibreglass is adopted as a cone material, which enables quick response during sound reproduction.



**In-line network**  
A separate crossover network is not required for the installation since it is built-in.



**Lead-Free Solder**  
Solder used in product manufacturing is lead-free to help protect the environment.



**Mica polypropylene mixed injection cone**  
Polypropylene with mica particles blended in is used in injection-moulded cone to attain superior response.



**MultiFit Construction**  
The tweeter and woofer can be separated during installation to provide the most focally correct location for specific vehicles.



**Neodymium magnet**  
Neodymium magnets feature high magnetic energy, which helps minimise magnetic distortion when used in speaker drivers.



**PEI balanced drive**  
Integrated PEI diaphragm and voice coil bobbin, which reduces the mass and provides optimum induction conditions in the magnetic gap. This dramatically improves the dynamic range.



**Powerful strontium magnet**  
A high-conductivity magnet is used in Clarion's speaker systems to obtain an air gap magnetic flux density significantly higher than that obtained from ferrite magnets.



**Rear-vented pole piece**  
To prevent pressure from building up inside the centre cap and causing increased amplitude distortion, a vent is provided on the rear of the pole piece.



**Rubber surrounds**  
The rolled edge of the cone provides superior response, while its butyl material is highly durable and moisture resistant.



**S.E.T. (Spider Exhaust Technology) Cooling**  
Heat is the number one enemy of speakers. All of Clarion's Ultra and Platinum (MultiFit) woofer drivers feature S.E.T. (Spider Exhaust Technology) Cooling, to allow hot air to escape the speaker's internal motor assembly via computer designed porting.



**Silk-cloth soft dome tweeter**  
Clarion's high-end tweeters use silk, strengthened by the lamination layer to provide natural, finely detailed sound.



**TM-MIPP (Titanium Metallized MIPP) Cone**  
MIPP (Mica Injected Polypropylene) cones with blended titanium offer superior lightness and rigidity for an excellent response even with the fast transients typical of digital sound sources.



**TP-GF (Titanium Plating Glass Fiber) Cone**  
Designed to offer max. 400 W power handling capability, the woofer uses a fibreglass cone with a vapour-deposited titanium coating to increase rigidity and response speed for tight bass with low distortion.



**Variable angle tweeter**  
The angle of the tweeter is adjustable according to the installation.



**Water resistant cone**  
Water resistant cones prevent sound quality deterioration caused by moisture. Door mounting is possible without further protection.



**Wide-range 50/80 kHz soft dome tweeter**  
These super tweeters use soft dome diaphragms and high-power magnets to achieve rich expressiveness. They offer reproduction up to 50 kHz or 80 kHz for crystalline highs.



**Wired remote control**  
Stick-type remote for control of a powered subwoofer from the driver's seat. When installed on the dashboard, it offers comfortable control of the low-pass filters, gain and phase switching within easy reach.



**TM-GF/TW (Titanium Metallized Glass Fibre/Titanium Wire composite) cone**  
This newly developed speaker cone material offers the combined benefits of fibreglass lightness and responsiveness, Titanium metallization for superior rigidity, reinforced with Titanium wire interwoven into the cone material structure.



**PMI (Pearl Mica Injection) -PP cone**  
Uses a new hybrid material with Pearl Mica (titanium dioxide coated mica particles) mixed with a Polypropylene base material. These cones are lighter and more responsive, as well as highly durable and resistant to distortion.



**Pure soft dome tweeter**  
Equipped on SRP/SRQ Series speakers, this new translucent black material balances suppleness and firmness for highly responsive reproduction of high frequencies.