

# Main Units

Experience this sound, witness the future.

The latest in audio technology, together with our commitment to usability and safety, are condensed into mere 1-DIN dimensions. Clarion units are the ultimate, offering everything wanted in a next-generation main unit; from the unwavering commitment to high fidelity sound, as well as compatibility with new media and mobile tools. Optimedia Display defines conventional wisdom. Clarion's 2006 main unit lineup will appeal to the driver's sense of superiority, offering next-generation functions and performance to reshape the in-car musical experience of a new generation of users.

## Leading-edge intelligent functions transform the car into the ultimate acoustic space.

Optimedia Display is a new style of GUI offering vastly improved usability and safety. Keeping the number of buttons and knobs at a bare minimum, control of nearly all units is done right at the display panel. The panel responds immediately



and accurately to your commands – you just touch or slide your finger across the panel – for intuitive control of various modes and functions. High-end main units feature a black faceplate that adds a cool look to the touch-activated intelligent functions.

## Compatibility with a wide range of media & devices extend the possibilities of future car audio

It goes without saying that disc media such as audio CD and CD-R/RW are supported, but smart collaboration with a wide range of compressed audio media such as MP3/WMA, as well as compatibility with the portable audio standard-setter iPod® opens up whole new possibilities for driving enjoyment. Furthermore, the



2006 lineup can connect to SD cards or USB devices, and supports playback of MP3/WMA files directly from USB memory or USB players as well as standard MP3/WMA playback. You can now enjoy the flexibility and wide ranging possibilities that the latest music devices and media formats can provide, both inside and outside your car.

## Sound quality and acoustic field analysis technologies bring out the best sound for your car's spatial environment.

Inheriting Clarion's commitment to sound in its design concept, the AC Processor IV is our original digital processor that concentrates the high sound quality and acoustic field analysis technologies of a high-end model into a single chip. Gathering Digital Crossover, Dolby Prologic II, Time Alignment functions, its dynamic sound and ability to flexibly accommodate your car's interior will instantly transform your listening experience. What's more, the Listening Position Optimiser



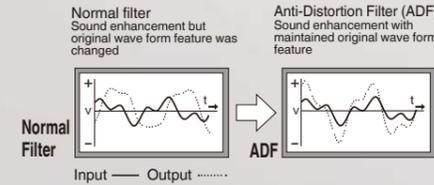
(LPO) that virtually adjusts the speaker distance to create a sound stage that matches a wide variety of vehicles, and Digital Z-Enhancer that lets you choose from 4 preset equalisation patterns to satisfy your sound preferences. This gives the means to freely adjust and adapt the sound to your car interior.

# Redefining the term digitally remastered: Optimedia display



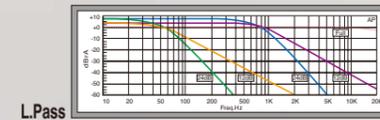
### Optimedia display

The DXZ866MP is one of two new main units offering Clarion's next-generation Optimedia display technology – a feature that blends impeccable graphics with touch-screen control. Remastered, Optimedia display has evolved from its first-generation monochrome look to full colour in 2006. We didn't stop there, however. The motion graphics this technology offers are vastly improved, and the revamped onscreen layouts make navigating through the unit's menu screens easy. For unparalleled looks and control ... Optimedia display.



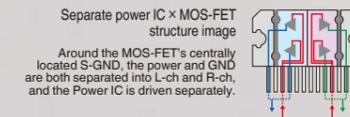
### ADF (Anti Distortion Filter)

Don't let sound-hindering factors such as road noise and rushing wind get in the way of great sound. Because the vehicle tends to make it difficult to hear high and low frequencies, Clarion outfits its high-end main units with an Anti Distortion Filter. This filter eliminates mutual phase distortion that can occur, and emphasises the natural frequency characteristics of the sound. The result is crystal clear, high-quality sound reproduction.



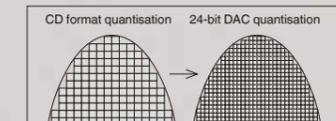
### LPF (Low-Pass Filter)

For optimal subwoofer performance, Clarion equips its DXZ866MP with a built-in Low-Pass Filter. Offering users selectable frequencies at 50 Hz, 80 Hz, and 120 Hz, Clarion's Low-Pass Filter stops mid- and high-range frequencies from entering the subwoofer output. This allows users to really dial in the bass so it hits harder, tighter and cleaner.



### MOS-FET power amplifier

There's only one way for Clarion's DXZ866MP to deliver 4 × 53 W of unyielding power output and superior linearity: MOS-FET amplification, also known as Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.



### 24-bit D/A converter

A key component in the transfer of digital data from a CD into analogue sound is Clarion's 24-bit D/A converter. Because 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, Clarion's embedded 24-bit D/A converter recreates the natural nuances and expressions lost during the sound reproduction process.

Offering 24-bit D/A converters, a high-power MOS-FET amplifier, Clarion's Optimedia display technology, a 4.2-inch Multicolour TFT display, and an attractive metal tone faceplate, the DXZ866MP really does look as good as it sounds. Loaded with sound-enhancement features, such as Clarion's Anti Distortion Filter and 2-band parametric EQ, the DXZ866MP puts you in control of your sound. This is a main unit that truly does it all.

## DXZ866MP

CD/MP3/WMA RECEIVER / CeNET & TOUCH PANEL CONTROL



- Optimedia display: 4.2-inch 256-colour full dot TFT LCD
- ADF(Anti Distortion Filter)
- Touch panel control
- 2-band parametric equaliser
- Low-pass filter
- 24-bit D/A converter
- 18 FM, 6 AM station presets
- DSP tuner with variable bandwidth
- 4-channel × 53 watts of MOS-FET amplification
- MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready
- Auto dimmer with sensor
- Adjustable display contrast
- Wallpaper and screensaver
- Spectrum analyser
- CeNET Control of: DVD changer(easy), TV tuner, 6-disc CD changer
- 4-volt/6-channel RCA output
- 2-channel AUX input with level control
- CeNET iPod interface compatible



Detachable control panel



Motorised sloping console



Rotary volume control

### Screensaver



### Day & Night



### L.P.F



### Wallpaper



### P.E.Q



### Spectrum analyser



### Hi-Fi System Plan





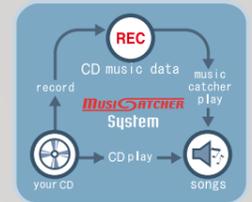
## A sense of superiority through the manipulation of the highest level of sound

The advanced 4.2-inch TFT colour display crystallizes Clarion's HMI (Human Machine Interface) technology into the Optimedia display, which shows the setting status of each function in super-high definition. And, in addition to this high-visibility and operability, Clarion's sound quality and sound field analysis technology equaling that of any high-end models has been combined with high-definition sound and condensed into the "AC Processor IV" chip, which creates a refined in-car audio-visual environment. Additionally, the inclusion of Music Catcher lets you enjoy CD changer-like long play, and provides comfort, safety, and operability, as well as Clarion's well-known top-edge sound quality. These features are condensed with new technology and high performance to completely transform your in-car music scene.

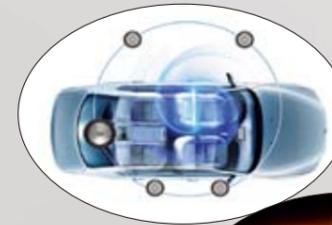


### Music Catcher

Representing the first Optimedia main unit to incorporate Clarion's Music Catcher one-touch CD recording technology, Clarion's DXZ956MC is truly what innovation is all about. All it takes is a simple press of the onscreen "Record" button to get 6 CDs worth of music storage. To access your Music Catcher collection for skip-free playback, simply press the "Function" button. It's that easy. For additional Music Catcher options, press the "Mode" button on the faceplate. From there, you'll get full touch-screen control of play and editing functions. This is truly high-tech innovation made simple.



## "AC-Processor IV" for next-generation digital sound processing



### Digital Time Alignment

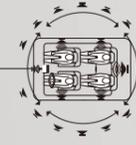
In order to obtain a good sound positioning, it is ideal to locate each speaker to the listener in equidistant. However, it is almost impossible to realise it for car audio installation. Digital Time Alignment works to move away the speakers in virtual, so that the desirable listening field can be easily realised. The range can be adjusted from 0 to 501.4cm in 2.3cm steps.



### Virtual Space Enhancer

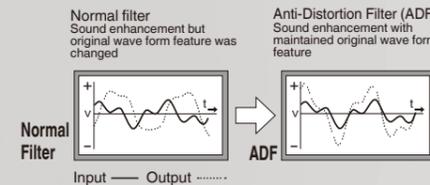
Lets you digitally correct irregular reflection, polarisation and other acoustic problems that may result from your vehicle's interior design. In addition, simply choose from these three available options: SEDAN, WAGON and MINI-VAN

- RADIO
- MUSIC CATCER
- DVD
- CD
- VCD
- iPod
- TV
- AUX



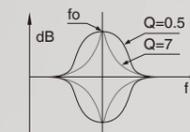
### Dolby Pro Logic II

Lets you enjoy 5.1-channel surround sound with any 2-channel sources, including DVD, CD, VCD, MP3, WMA and radio tuner. Virtual 5.1-channel surround using 4 speakers is also available.



### Anti Distortion Filter

ADF (Anti Distortion Filter) is a newly developed equalising system, which is designed to match peak of frequency curve to the original one. Conventional tone control or loudness is effective for emphasising bass/treble sound, however, due to phase discordance, it sometimes damages the original sound. Thanks to the Clarion's latest sound technology, ADF is able to reinforce bass/treble sound without causing such distortion, so that the original sound can be lively reproduced after equalization. Three preset patterns and one user memory is provided.



### 3-band parametric EQ

Lets you adjust the equalisation of each frequency band independently for front and rear speakers.

## DXZ956MC

CD/MP3/WMA RECEIVER / CeNET & TOUCH PANEL CONTROL/ MUSIC CATCHER



- Optimedia display: 4.2-inch 256-colour full dot TFT LCD
- Touch panel control
- Music Catcher CD recorder
- AC Processor IV with DSP
- 3-band parametric equaliser
- Low-pass filter and High-pass filter
- Shockproof memory (45 sec.)
- 18 FM, 6 AM station presets
- DSP tuner with variable bandwidth
- 4-channel x 53 watts of MOS-FET amplification
- MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready
- Auto dimmer with sensor
- Adjustable display contrast
- Wallpaper and Screensaver
- Codematic
- Spectrum analyser
- CeNET Control of: DVD changer(easy), TV tuner, 6-disc CD changer
- 4-volt/6-channel RCA output
- 2-channel AUX input with level control
- CeNET iPod interface compatible



Detachable control panel CD loading slot (Slope console)

### Digital crossover

Separates the sound spectrum into different bands so you can minimize peaking and phase cancellation, which can result in muddy sound when using a 2-way or 3-way speaker system. Crossover circuitry also optimizes each output range, resulting in more natural and smooth transitions between ranges. And since it's built-in, it requires no additional equipment or expertise. The

cut-off frequency, filter, slope and phase can be adjusted for each band, enabling precise sound tuning. You can also set a time alignment value for each speaker for optimal sound matched to the vehicle's acoustics.

### Multi mode (when selecting subwoofer)

Speaker output		Crossover frequency			
			Crossover slope	Level adjustment	phase nor/rev
CROSS-OVER	HIGH (HPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20kHz, THROUGH / Factory setup 2 kHz	-6, -12, -18dB/oct Factory setup -12dB/oct	0 ~ -20 dB	With switchover
	MID (LPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH / Factory setup 2 kHz	-6, -12, -18dB/oct Factory setup -12dB/oct	0 ~ -20 dB	With switchover
	MID (HPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH / Factory setup THROUGH	-6, -12, -18dB/oct Factory setup -12dB/oct		
	SUB (LPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10kHz, THROUGH / Factory setup 80 Hz	-6, -12, -18dB/oct Factory setup -12dB/oct	+6 ~ -20 dB	With switchover
	SUB (HPF)	f=16, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250Hz, THROUGH / Factory setup THROUGH	-6, -12, -18dB/oct Factory setup -12dB/oct		

## Overwhelming power of expression set free by the super-high definition display



Equipped with the industry's first fully Integrated full-dot high-definition 16-grade greyscale VFD, the DXZ766MP expresses both text and moving pictures in super-high definition. The fashionable radiance of the unit combined with high-definition sound creates a sophisticated car audio-visual space. The unit is fully equipped with a 24-bit D/A converter, which faithfully expresses every nuance of the digital source sounds on recorded CDs, Z-Enhancer, which you can use to alter the sounds suit your favourite taste in music, and 4V 6-channel output terminals, which extend the realms of in-car entertainment excellence.

### DXZ766MP

CD/MP3/WMA RECEIVER/CeNET CONTROL



- Z-Enhancer sound customisation
- Low-pass filter
- 18 FM/6 AM station presets
- 4-channel x 53 watts of MOS-FET amplification
- MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready
- FI VFD (Fully Integrated 16-gradation full dot VF display) (256 x 64 dot)
- 728-variable colour illuminated keys
- Screensaver
- CeNET control of: DVD changer (easy), TV tuner, 6-disc CD changer
- 4-volt/6-channel RCA output
- 2-channel AUX input with level control
- CeNET iPod interface compatible



Detachable control panel



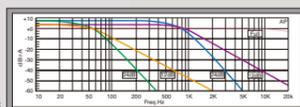
**FI VFD (Fully Integrated full dot vacuum fluorescent display)**  
Equipped with a high-definition full-dot display that clearly and distinctly displays letters, numbers and graphics. Text display and advanced motion picture displays are speedily and beautifully projected thanks to the easy-to-see 16-grade greyscale and warm graphic expression.



**24-bit D/A converter**  
A key component in the transfer of digital data from a CD into analogue sound is Clarion's 24-bit D/A converter. Because 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, Clarion's embedded 24-bit D/A converter recreates the natural nuances and expressions lost during the sound reproduction process.



**Smart control & retractable 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.



**LPF (Low-Pass Filter)**  
For optimal subwoofer performance, Clarion equips its DXZ766MP with a built-in Low-Pass Filter. Offering users selectable frequencies at 50 Hz, 80 Hz, and 120 Hz, Clarion's Low-Pass Filter stops mid- and high-range frequencies from entering the subwoofer output. This allows users to really dial in the bass so it hits harder, tighter and cleaner.

## Stylish collaboration of sound and light



Thanks to the high-definition 16-tone scale full-dot VFD and 728-variable colour brilliant key illumination, text and graphics are vividly projected onto the DXZ666MP. The motorised sloping console is designed in consideration of space-saving and overall car interior design. Along with the smart control, which allows volume control or track changing, the DXZ666MP features added fashion and operability and crystal clear high-definition sounds.

### DXZ666MP

CD/MP3/WMA RECEIVER/CeNET CONTROL



- Z-Enhancer sound customisation
- 18 FM/6 AM station presets
- 4-channel x 53 watts of MOS-FET amplification
- MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready
- 16-gradation Full dot VF display (114 x 32 dot + 88 icon)
- 728-variable colour illuminated keys
- Spectrum analyser
- Screensaver
- CeNET control of: DVD changer (easy), TV tuner, 6-disc CD changer
- 4-channel RCA output
- 2-channel AUX input with level control
- CeNET iPod interface compatible



Detachable control panel



**Multicolour buttons**  
The 2006 Clarion range offers three main units with which you can adjust the RGB levels to cosmetically harmonise the colour design of keys with your car's dashboard illumination. You can choose between 728 different colour possibilities to perfectly match your preferences.



Motorised sloping console



**Smart control key**  
Whether it's a regular CD or a hefty collection of MP3/WMA songs, this function lets you quickly and easily access the exact song you want to hear regardless of the recorded media.



Rotary volume control



**212 watts MOS-FET power amplifier**  
There's only one way for Clarion's DXZ666MP to deliver 4-channel x 53 watts of unyielding power output and superior linearity: MOS-FET amplification, or, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

## Equipped with a USB port for extended musical style and expression

The DB566USB features intrepid design and sharp impression wrapped up in a single main unit. You can now enjoy your favourite MP3/WMA format music files played directly from USB memory players thanks to the incorporation of a USB port. Compatibility with a wide range of media seamlessly extends your enjoyment of music. Furthermore, the employment of amazing audio technology such as the Z-Enhancer, which allows you to choose your favourite type of sounds to suit your musical tastes, and Magna Bass EX, which delivers profound, clear bass, helps the DB566USB to achieve a truly impressive quality of sound.

### DB566USB

CD/USB/MP3/WMA RECEIVER



- USB slot on front escutcheon • Z-Enhancer sound customisation • 18 FM, 6 AM station presets • 4-channel x 50 watts of MOS-FET amplification • MP3 and WMA compatible with ID3-TAG display • CD-R/RW ready • High contrast white negative display (13 x 8 digits) with screensaver • 4-channel RCA output • 2-channel AUX input • Detachable control panel



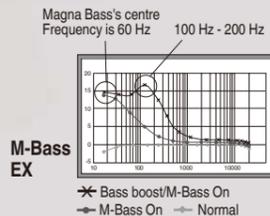
Rotary volume control

#### USB interface

You can now connect all kinds of peripheral equipment using the common USB (Universal Serial Bus) standard interface. By connecting a mobile audio player directly to the USB connector, you can enjoy all of your MP3/WMA format music files through the car audio system. The system supports a maximum of 255 files, 255 folders, 28 character file names and 16-character folder names.

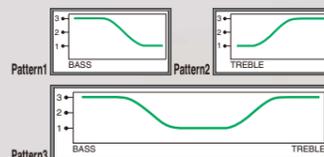


USB slot



#### Magna Bass EX

Compared to conventional loudness features, which boost the low frequency range of 100 Hz, Magna Bass boosts the ultra-low frequency range with a centre frequency of around 60 Hz. For additional bass response, Clarion has added Magna Bass EX, which goes beyond Magna Bass by boosting the ultra-low frequency range centered around 60 Hz. This feature also reduces noise thanks to its automatic compensation function, which produces well-balanced, dynamic bass sound no matter how loud you play the music.



#### 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.

## Bold black face equipped with a high-detail full dot LCD



The flip-down panel on the DXZ466MP features a sophisticated black face design. It has an exceptionally bright, high-definition full-dot LCD to enable reading in any situation. It displays valuable informations, such as playback status, artist name and various other informations. Moreover, the unit offers outstanding sound quality thanks to features such as the Z-Enhancer, which is used to adjust the sound to suit your own personal taste, Magna Bass EX, which powerfully and faithfully reproduces clear bass, and an internal high-power MOS-FET amplifier with an output of 4 x 52 watts. What's more, it has 4-channel (2 front channels + 2 rear channels) output, making it a truly versatile main unit with lots of possibilities for system expansion.

### DXZ466MP

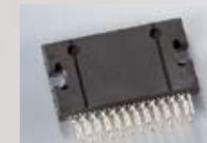
CD/MP3/WMA RECEIVER/CeNET CONTROL



- Z-Enhancer sound customisation • 18 FM, 6 AM station presets • 4-channel x 52 watts of MOS-FET amplification • MP3 and WMA compatible with ID3-TAG display • CD-R/RW ready • Full dot LCD (160 x 48 dot) • Adjustable display contrast • Screensaver • CeNET Control of: TV tuner, 6-disc CD changer • 4-channel RCA output • 2-channel AUX input with level control



Flip down console



#### 208W MOS-FET power amplifier

There's only one way for Clarion's DXZ466MP to deliver 4-channel x 52 watts of unyielding power output and superior linearity: MOS-FET amplification, or, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and zero On/Off switching noise. So crank it up, or turn it down for easy listening. Either way, with MOS-FET amplification, your music has never sounded quite like this.

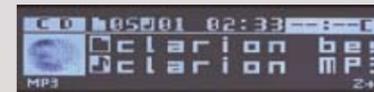


Detachable control panel



#### Retractable rotary volume and smart 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.



#### Negative 2-line LCD 2-line-display supports MP3 and WMA audio formats

A stylish, easy-to-view 2-line LC display with a blue background and source icons placed on the left side provides the ultimate, easy-to-use and easy-to-read experience. Furthermore, support for MP3 and WMA audio formats enables you to store and listen to more than 100 tunes on a single CD-R/RW disc, thus making long drives enjoyable and comfortable.

#### Message Information

Personalize your main units display screen by adding your own text message. For added effect, this feature also allows your message to scroll across the screen. Use this feature as a bulletin board for your vehicle, or utilize it as a memo pad.

## Intense black form that sets the energy of the original sound free

The DXZ366MP, DB266MP, and DB166 main units give you the feeling of a solid, intense black form presence in the cockpit that is combined with high performance. Each of the three models is equipped with the Z-Enhancer, which allows you to set 3 equalizing patterns that emphasize the full range of bass and treble tones while still maintaining a good balance of sound. The units also incorporate Magna Bass EX, which compensates for high volume by applying a weaker boost and low volume by applying a stronger boost, delivering dynamic bass to your favourite music. Clarion has accumulated unique technology that is able to break through the barriers that the in-car environment presents to produce the finest high-quality sound.



### DXZ366MP

CD/MP3/WMA RECEIVER/CeNET CONTROL

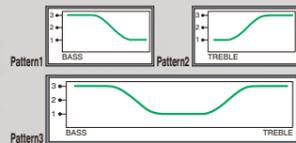


- Z-Enhancer sound customisation
- 18 FM, 6 AM station presets
- 4-channel x 50 watts of MOS-FET amplification
- MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready
- High contrast blue negative display (13 x 8 digits) with Screensaver
- CeNET control of: DVD changer (easy), TV tuner, 6-disc CD changer
- 2-channel RCA output
- CeNET iPod interface compatible



#### Flip down console

At the touch of a button, the control panel flips down to reveal a CD loading slot. This design allows more effective usage of the control panel with a larger display and larger knobs for easier operation.



#### Z-Enhancer

Z-Enhancer acts as a super loudness compensation EQ, providing users with three selectable listening patterns. The first adds more bass, the second adds more treble, and third dose both.

#### MP3, WMA and ID3-TAG

Both models handle MP3 and WMA digital audio files, and both support ID3-TAG coding for display of title info. Because both MP3 and WMA files are compressed, each CD-R or CD-RW can hold up to 12 hours of music with CD sound quality.



Rotary Volume and Smart Control



Detachable Control Panel



### DB266MP

CD/MP3 RECEIVER



- Z-Enhancer sound customisation
- 18 FM, 6 AM station presets
- 4-channel x 45 watts amplification
- MP3 compatible with ID3-TAG display
- CD-R/RW ready
- High contrast blue negative display (13 x 8 digits) with Screensaver
- 2-channel RCA output



Rotary Volume Control



Detachable Control Panel



### DB166

CD RECEIVER



- Z-Enhancer sound customisation
- 18 FM, 6 AM station presets
- 4-channel x 45 watts amplification
- CD-R/RW ready
- High contrast blue negative display (13 x 8 digits) with Screensaver
- 2-channel RCA output



Rotary Volume Control



Detachable Control Panel



## The essence of audio is alive in its design

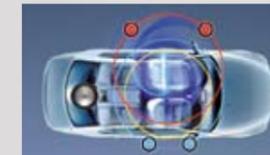
With brushed metal finish, the boldly noticeable faceplate is divided into five sections, with control knobs that offer superior usability laid out on its surface. Clarion's WXZ466MP offers unprecedented presence as a high quality audio component. The graphical image offered by the 23-band spectrum analyser puts a finishing touch on this powerful 6 CD unit. Design is made to satisfy sense expectation. Enjoy double sized design with this original product. More and more cars offer large installation space in their dashboard. The perfect product to achieve your car interior is born.

### WXZ466MP

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



- 18FM, 6AM station presets • 4-channel x 50 watts of MOS-FET amplification • MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready • VF display with Spectrum analyser and Screensaver • CATS: Theft prevention system with personal code • CeNET Control of: DVD changer (easy), TV tuner, 6-disc CD changer • 4-channel RCA output • 2-channel AUX input with level control • CeNET iPod interface compatible



#### Listening Position Optimiser (LPO)

The WXZ466MP'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.

setting		Right		Left	
		Distance	Sample	Distance	Sample
LPO 1 for compact car	R	10cm	13	40cm	52
	L	40cm	52	10cm	13
LPO 2 for sedan	R	10cm	13	80cm	104
	L	80cm	104	10cm	13
LPO 3 for 1box car	R	10cm	13	160cm	208
	L	160cm	208	10cm	13

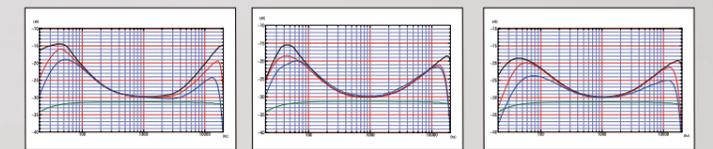
#### Built-in 6-disc CD changer & MP3/WMA file playback

You can load up to 6 discs in the unit's internal CD changer so you'll probably never run out of music on your drives. 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 full CD library on a single CD-R at comparable quality. ID3/WMA tags are supported to display a wide range of informations on the tunes being played.



#### Digital Z-Enhancer

Clarion's Digital-Z Enhancer controls P-EQ, HPF, and LPF through the DSP, allowing you to select from three equalising patterns that emphasise the range of tones in the upper/base regions respectively while maintaining perfect acoustic balance. Furthermore, by adding gain adjustment (HI, MID, LOW) to the 3 equalising patterns, it is now possible to choose from 9 different equalising patterns to customise the sound quality pattern so that it matches your speaker system or music source perfectly.



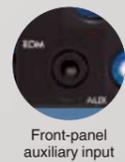
- DZE1 - High
- DZE1 - Mid
- DZE1 - Low
- DZE - Off
- DZE2 - High
- DZE2 - Mid
- DZE2 - Low
- DZE - Off
- DZE3 - High
- DZE3 - Mid
- DZE3 - Low
- DZE - Off

# An image of urban nights through the refinement of light and form

Furnished with a sharp, strikingly designed front panel. Vivid brightness and luster created by the 728 variable colour LED creates an image of city illuminations at night. Moreover, as the DFZ667MC is equipped with an SD card slot enabling smooth compatibility with mobile music players, it is fully capable of seamlessly supporting your musical life in the digital age. And with the inclusion of the highly anticipated "Music Catcher II", which gives you 4X high speed recording and the ability to select from four different tone quality presets, you can enjoy all the benefits of a CD changer long play function at your fingertips without having to carry around a clumsy CD storage case.



- 728-variable colour
- Screen saver
- Music Catcher II CD recorder and SD slot
- Digital Z-Enhancer
- Magna Bass EX dynamic bass enhancement
- 18FM/6AM presets
- 4-channel x 50 watts of MOS-FET amplification
- MP3 and WMA compatible with ID3-TAG display
- CD-R/RW ready
- CeNET Control of: DVD changer (easy), TV tuner, 6-disc CD changer
- 4-channel RCA output
- Front-panel auxiliary input
- Rotary volume control



**Compatibility with a wide range of media**  
DFZ667MC can connect to SD cards devices, and supports playback of MP3/WMA files directly from memory or players as well as standard MP3/WMA playback. You can now enjoy the flexibility and wide ranging possibilities that the latest music devices and media formats can provide both inside and outside your car.

**Music Catcher II "4 Times Speed" digital recording**  
Clarion's leading-edge Music Catcher II lets you record, play and erase data files holding as much music as six of your favourite CDs. Say goodbye to CD changers and storage cases. Don't drop your valuable CDs when you try to load those clumsy cartridges for your bulky old CD changer; catch on to Music Catcher.

- LP Mode : About 650 minutes / 13CDs
  - STD Mode : About 500 minutes / 10CDs
  - HQ Mode : About 350 minutes / 7CDs
  - SHQ Mode : About 250 minutes / 5CDs
- \*1 album 50 minutes conversion

## DFZ667MC

2-DIN CD/SD/MP3/WMA RECEIVER/  
CeNET CONTROL



**Digital Z-Enhancer**  
Clarion's Digital Z-Enhancer controls P-EQ, and through the DSP, allowing you to select from three equalizing patterns that emphasize the range of tones in the upper/base regions respectively while maintaining perfect acoustic balance. Furthermore, by adding gain adjustment (HI, MID, LOW) to the 3 equalizing patterns, it is now possible to choose from 9 different equalizing patterns to customize the sound quality pattern so that it matches your speaker system or music source perfectly.

CD & cassette model equipped with EQ and spena patterns for the mainstream listener



## ADB341MP

2-DIN CD/MP3/CASSETTE RECEIVER



- 18 FM, 6 AM station presets
- 4-channel x 50 watts amplification
- 3-band graphic equaliser
- MP3 compatible with ID3-TAG display
- CD-R/RW ready
- Full logic tape transport
- Auto programme control (APC)
- Spectrum analyser
- Screensaver
- 2-channel RCA output
- 2-channel AUX input



Cool design and basic functions wrapped up in this simple CD & cassette model



## ADX6655z

2-DIN CD/CASSETTE RECEIVER/  
CeNET CONTROL



- Z-Enhancer sound customisation
- 18 FM, 6 AM station presets
- 4-channel x 45 watts amplification
- Dolby B noise reduction
- Full logic tape transport
- Auto programme control (APC)
- Comfortably classic design
- CeNET control of: TV tuner, 6-disc CD changer
- 4-channel RCA output
- CeNET iPod interface compatible



## ARX1970

CASSETTE RECEIVER/  
C-BUS CONTROL



- C-BUS 6-CD changer control
- Auto reverse
- 4-channel x 50 watts amplification
- 2-channel RCA output
- 18FM, 6AM station presets
- Rotary volume control
- Detachable control panel



## AX430

CASSETTE RECEIVER/  
C-BUS CONTROL



- C-BUS 6-CD changer control
- Z-Enhancer sound customisation
- Full logic tape transport
- Auto programme control (APC)
- 4-channel x 50 watts amplification
- 2-channel RCA output
- 18FM, 6AM station presets
- Rotary volume control
- Detachable control panel



## ARB1970

CASSETTE RECEIVER



- Detachable control panel
- Auto reverse
- 18FM, 6AM station presets
- 4-channel x 50 watts amplification
- 2-channel RCA output
- Rotary volume control

## 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



## DC625

### 6-DISC CD C-BUS CHANGER

- 6-disc magazine
- CD-R/RW ready
- Horizontal or vertical mounting capability

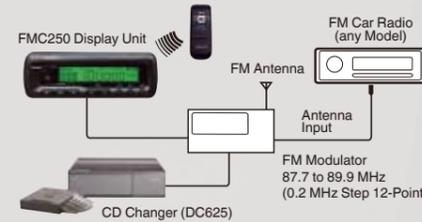


#### Play back CD sound on any FM car radio

The FMC250 controls a Clarion CD changer and plays back the sound via your FM car radio — no matter which brand. The FMC250 hideaway unit connects between your FM radio antenna input and the car antenna. Simply tune your radio anywhere from 87.7 to 89.9 MHz (0.2 MHz step 12-point) and listen to superior Hi-Fi CD sound in full stereo from the connected Clarion CD changer.



FM Modulator



## FMC250

### CD CHANGER CONTROLLER WITH FM MODULATOR

- Play/Pause selector • Repeat play
- Random/Scan play • Track search
- Disc selector • Software controlled setup
- Flush mounting bracket included

New 1/2 DIN Equaliser with 7 bands of adjustment, and built-in high pass and low pass crossover with subwoofer level control



## EQS744

### 1/2 DIN GRAPHIC EQUALISER/CROSSOVER

- 7-Band Graphic Equaliser • Selectable main & AUX inputs
- Subwoofer level control • Selectable subwoofer low pass frequency 60Hz or 90Hz
- 6-channel/ 7-volt RCA line level output

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

#### CD Changer specifications

	DCZ625	DC625
Wow/Flutter (WRMS)	Below measurable limit	Below measurable limit
S/N Ratio (dB)	105	105
Frequency response (Hz)	95	95
Dynamic range (dB)	5 to 20,000	5 to 20,000
Harmonic distortion (%)	0.01	0.01
Dimensions (W x H x D), mm	225 x 63 x 167	225 x 63 x 167

	HX-D2	HX-D1	DRX625EXL	DXZ650MC	DXZ680MP	DXZ760MP	DXZ660MP	DB960USB	DXZ460MP	DXZ660MP	DB260MP	DB 165	WXZ460MP	DFZ667MKC	ADB341MP	ADY6655Z	ARK1970	AX430	ARB1970
Multi-media																			
Pixel Display				38,400	38,400	16,384	3,648		7,680										
Screen Resolution of				400 x 96	400 x 96	256 x 64	114 x 32		13 x 8	160 x 48	13 x 10		13 x 8						
Touch-Panel Control With Soil-Resistant Finish				•	•														
Source																			
Music Catcher Digital Recorder				•	•														
Plays MP3 and WMA Encoded CDs				•	•														
Plays MP3 Encoded CDs				•	•														
Plays CD-R/RW	•	•/-	•/-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Full Logic Cassette with Auto Reverse																			
Auto Reverse																			
SD/USB Slot								USB						SD					
AC Processor IV				•	•														
Anti-Distortion Filter				•	•														
Dolby Pro Logic II				•	•														
Built-in DSP for Time Alignment, Seat Position, Virtual Space Enhancer	•			•	•														
Listening Position Optimizer				•	•														
3-Band Parametric EQ	5-Band			•	•														
2-Band Parametric EQ				•	•														
Digital Z Enhancer																			
Z-Enhancer EQ																			
Graphic EQ													9 BAND						
Built-in adjustable High Pass Crossovers for Front/Rear/Centre Channels: Through 50Hz/80Hz/120Hz	•			•	•														
Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz	•			•	•														
Magna Bass EX				•	•														
24-Bit D/A Converter	Burr Brown	•	20bit																
High Power	-----			53W x 4	53W x 4	53W x 4	53W x 4	50W x 4	52W x 4	50W x 4	45W x 4	45W x 4	50W x 4	50W x 4	50W x 4	45W x 4	50W x 4	50W x 4	50W x 4
4-Volt/8ch Gold Plated RCA Line Level Output	Max8V/8ch	Max9V/4ch	Max9V/4ch	•	•														
4-Volt/8ch RCA Line Level Output				•	•														
4-Channel RCA Line Level Output																			
2-Channel RCA Line Level Output																			
Built-in Amplifier Bypass Circuit (=AMP Canceller)				•	•														
Appearance																			
Stainless Steel Faceplate				•	•														
728 Variable Colour Buttons (12 presets and 3 users)				•	•														
Optimedia Display (Touch Panel Control)				•	•														
F1 V Display																			
F2 V Display	•	•	•																
Full Dot LCD				•	•														
Auto Dimmer				•	•														
Rotary Volume Control	•	•	•																
Screen Saver with User-Programmable Message Information				•	•														
Adjustable Display Contrast				•	•														
Spectrum Analyser				•	•														
Motorised Detachable Control Panel				•	•														
Flip Down Detachable Control Panel																			
Others																			
CD Text	•	•		•	•														
Infrared Remote Control				•	•														
Radio Presets	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM	18FM/6AM
Detachable Control Panel with Blinking LED for Anti-Theft				•	•														
Detachable Control Panel																			
Partially Detachable Control Panel																			
Extension																			
CeNET Control of				•	•														
DVD Changer	•	•		•	•														
6-Disc CD Changer				•	•														
TV tuner				•	•														
AUX Input	4ch (2ch x 2)	•		•	•								•	Front AUX jack	2ch				

# HX SERIES ONLY THE CHOSEN PEOPLE ARE TOUCHED BY ORIGINAL SOUNDS.

High-definition sound fills the driver with a sense of superiority. There is a true feeling of joy and emotion when you are face to face with music. In the pursuit of sound that is infinitely near to the original sound and generously supplied with cutting-edge technology, the creation of the HX series has brought Clarion's exceptional sound to a new high peak. The ultimate sound field and space are produced from Clarion's cutting-edge technology oriented circuitry, along with individually selected parts and raw materials, all united perfectly with the amplifiers and speakers. For drivers who demand the "real thing", Clarion offers sound quality that goes one step beyond, for that truly special driving time.



## Clarion's HX-D2 main unit takes you into the recording studio

From the pursuit of faithful sound source playback to the body layout, the series flagship model HX-D2 is packed with all of the functions one could possibly want from a modern main unit. The 96 kHz Sampling D/A converter draws out the delicate nuances and reverberations from the sound, while the 5 Band Parametric EQ creates the sound balance that perfectly matches your tastes. Additionally, the Glass Epoxy 4-Layer Circuit Board and external power supply unit DC/DC converter provide stable circuit operation and high-quality sound. Clarion offers sound that reaches the next level to discerning car audio fans who appreciate the subtle differences in sound, and that are searching for the ultimate in car sound quality.

### HX-D2

CD RECEIVER/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, and TV tuner
- 2 x 2-channel AUX inputs
- Zinc die-cast faceplate
- Fiber optic input/output
- Vacuum fluorescent display
- 18FM, 6AM station presets
- CeNET iPod interface compatible

## 96kHz Sampling D/A Converter

### Conventional CD players could only reproduce up to around 20kHz.

Sampling takes place to convert digital signals to analogue. In this process, digitised sound with a frequency range of up to about half the sampling frequency is reproduced. For example, in the case of CDs which are sampled at a frequency of 44.1kHz, playback is possible for up to half that, or 22.05 kHz. Sampling is set at 44.1kHz to achieve reproduction of highs in the neighborhood of 20kHz.

### Harmonic elements included in high range add richness and depth to sound.

The format specifications for CD deemed the high frequency elements above 20kHz as inaudible by the human ear, and thus they were not recorded. And even if such high frequencies were reproduced during playback, they would be detected as noise elements and removed by a digital filter. Not only that, but phase distortion was introduced as a result of noise cut-off by the filter, thereby inhibiting the accurate reproduction of high frequency sounds. Ironically, it is the harmonic elements contained in this high frequency range that affects the depth and nuance of sound.

### 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.

### Copper Plated Chassis prevents sound deterioration

Uses a copper plated chassis to minimize the generation of spurious electrical current which can adversely affect sections that have a bearing on the signal, as well as noise interception caused by electrical shielding effect. By incorporating a zinc diecast panel, with its large specific gravity, high rigidity and low resonance, sound quality deterioration due to vibration is reduced. 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.

### 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. Since the D/A Converter's internal structure is a 4DAC configuration which operates on L/R± differential, higher accuracy in D/A Conversion is afforded.

### Display OFF function

Turns off the display circuits when a CD or other source is being played, preventing pulse noise from the display section from affecting sound quality.

### Keeping great sound in and noise out: The HX-D2's DC/DC converter

Consisting of only the highest quality components – from the chassis to the wiring and fuses – the HX-D2's external power supply is the heart of this audiophile-grade main unit. With its six-sided shielded casing, this design thoroughly keeps out noise, even during high load bursts. And to prevent any vibration, Clarion wraps this high-quality power supply in an aluminum diecast casing, and a copper-plated chassis. Internally, the HX-D2's power supply utilises toroidal choke coils, which minimise car noise and power loss. The unit also utilises a large-capacity, low-impedance condenser, which allows this external component to supply pure power. Clarion takes this a step further by equipping the power supply with a gold-plated connection terminal, which minimises power loss.

### World's finest 0.7cm-step Digital Time Alignment

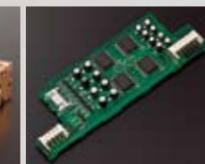
This function lets you set each speaker in a maximum 8-channel system to deliver the same acoustic effects with pinpoint accuracy, regardless of the listener's seat position (FRONT-L, FRONT-R, FRONT, REAR, and FULL SEAT position selectable). The Front L/R, Rear L/R, Centre speaker and Subwoofer work in harmony to create a seamless soundscape. It's possible to quickly and easily select the acoustic pattern of the system, or choose different settings according to the number of passengers or type of vehicle. (Adjustable range: 0 – 500cm, in 7mm steps)



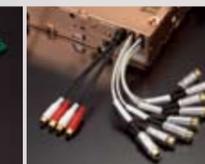
96kHz Sampling D/A Converter



Copper Plated Chassis Prevents Sound Deterioration

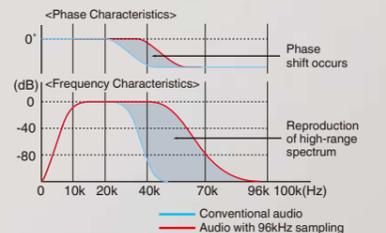


World's First 0.5dB Step Electronic Volume Circuit



Silver-Coated SK-6N (99.9999% Oxygen-Free) Copper RCA

### Conceptual Diagram of Frequency/Phase Characteristics



## Next-generation technology that spins the captivating crystallisation of sound



### HX-D1

CD RECEIVER/CeNET CONTROL



- Clarion high fidelity CD player without built-in amplifier • CeNET control of: 6-disc CD changer • Dual 24-bit D/A converter • HDCD disc playback
- High-capacity DC/DC converter (± 15 V) • 4-volt / 4-channel RCA output (Max 9 V) • High purity OFC cable • 2-channel AUX input • High visibility blue-white VF display • Copper plated chassis • Optical input terminal for connection with DCZ625 • Aluminium analogue rotary volume control • 18 FM, 6AM station presets • FM diversity

## In pursuit of the right materials and circuitry that can playback the full details of sound



### DRX9255EXL

CD RECEIVER/C-BUS CONTROL



- Clarion performance CD player without built in amplifier • C-BUS CD changer control • ALPHA processor\* • Dual 20-bit D/A converter • 4-volt / 4-channel RCA output (Max 9 V) • High visibility blue VF display • Copper plated chassis • High S/N analogue rotary volume • 18FM, 6AM station presets • FM diversity

\*The ALPHA processor was developed by DENON Consumer Marketing Co., Ltd.



## Overwhelming power and the power of expression that dominates the sound space

The digital circuit that let you feel and hear every tone and reverberation that until now you weren't able to hear. Overwhelming performance of the power section provides the stable power source needed for you to hear the difference. 100 kHz super-high region playback creates infinitely clear sound that emphasizes musical features, such as subtle tones of vocals or instruments that are present in the original music, and responds to the dynamic changes in the music signal. 4 x 50 W high-end power amplifier gives you a real experience of the beauty of reverberation and the artist's expression of emotion. The APA4300HX is equipped with all of the components one would need from a power amplifier, and makes a perfect partner to the HX series centre units.

### APA4300HX

4/3/2-CHANNEL AMPLIFIER

- Bridgeable for 4-, 3- or 2-ch mode operation
- Power guard circuit
- Low-loss power supply with high power output
- Continuous average power output: 300 W (4 x 75 W into 4 ohms, 20 Hz-20 kHz, 0.002 % THD)
- Maximum power output: 600 W (4 x 150 W into 4-ohms)
- Stable down to 1-ohm load (High current)
- Variable 4-ch Low-Pass Filter and High-Pass Filter (50-200Hz)
- Bass extender (40-120 Hz, 0-+12 dB)
- Direct input
- Digital display with 4- channel status information
- Aluminium housing with built-in cooling fan
- 100 kHz extremely high frequency reproduction
- Dolby Digital/dts ready



## Advanced technology combined with new components to set the power of sound free

The high-quality sound diaphragm created from woven glass fibers reproduces all of the musical sources so faithfully that the music sounds just like the instrument being played by the musician. The crossover network achieves seamless connections by distributing the correct signals to the woofers and tweeters. In order to create a high-speed response capable of answering the huge amount of digital age information, the SRS1752HX has been generously equipped with a wide range of new technology. From the second you flick the switch on, the sound released from each of the speakers will lead you to an unprecedented new field of sound.

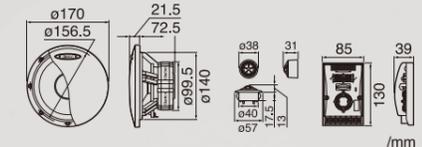


### SRS1752HX

16.5 CM [6 1/2"] 2WAY COMPONENT SYSTEM



- 16.5 cm (6-1/2") Glass fiber cone woofer with rubben surround
- Aluminum die-cast frame for high power handling and reduced distotion
- Powerful strontium magnet for dynamic bass response
- 2 cm (3/4") pure silk dome tweeter with dual-neodymium magnet
- 2-way mounting tweeter (variable angle flush mounting/surface mounting)
- Extremely high frequency reproduction /120 kHz
- Highgrade -12 dB/oct, 2 way crossover network with level attenuator(0,-3 dB)



## Heavy bass output gate that counters with menacing response

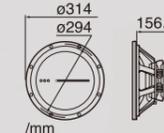


### SRM3093HX

30 CM [12"] SUBWOOFER



- 30cm titanium metallized MIPP cone woofer with rubber surround
- Double-stacked powerful strontium magnet
- Seamless parabolic cone structure for dynamic bass response
- Aluminium die-cast frame and cooling spacer for higher power handling



## The power to play back super-high-quality music media's 120 kHz sound range



### SRH292HX

2 CM [3/4"] SUPER TWEETER



- Pure silk dome tweeter with dual neodymium magnet
- 2-way mounting tweeter (variable angle flush mounting/surface mounting)
- Extremely high frequency reproduction/120 kHz
- Includes -6 dB/oct. in-line network with level attenuator (0, -6 dB, -12 dB)

