

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 (graphical user interface) offering vastly improved usability and safety. Keeping the number of buttons and knobs at a bare minimum, control is gained via 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 extends 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.

"True Sound" Technology Allows Accurate Sonic Reproduction that Re-creates the Excitement of a Concert

In 1996, Clarion's DRX9255 source unit became legendary because it faithfully reproduced the digital signals encoded on CDs. The new high-end HXD2 carries on the tradition of the DRX9255; it is equally capable of faithfully reproducing the original digital sound. The foundation of the HXD2's high-definition sound is its Digital-to-Analog converter, which operates at a sampling rate of 96 kHz. This double oversampling allows reproduction of the subtle details and depth



contained in upper-frequency harmonics. These details produce the expressiveness and resonance of real sound that cannot be done at a sampling rate of 44.1 kHz. In addition, the HXD2 uses only high-quality components such as a copper-coated chassis, wiring, output cables, and a glass-epoxy four-layer circuit board. These components prevent signal degradation and ensure superior performance. The HXD2 is the pinnacle of car-audio excellence; it reproduces the atmosphere and nuances of recordings so clearly and accurately you can hear the musicians breathing.



Offering a 24-bit D/A converter, 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.



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







Detachable control panel

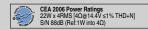


Motorised sloping console



Rotary volume 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





Optimedia display

The DXZ866MP offers 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.

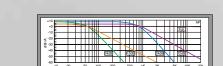
Normal filter Sound enhancement but original wave form feature was changed



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 highend 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.

Filter Input -— Output -----

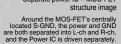


ADF

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 highrange frequencies from entering the subwoofer output. This allows users to really dial in the bass so it hits harder, tighter and cleaner.

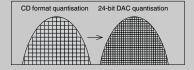
Separate power IC × MOS-FET





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 ampliintering, wood the framework and the first of the first o 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.

Screensaver





Day & Night





Wallpaper





LPF

P.EQ



12UHz

Spectrum analyser

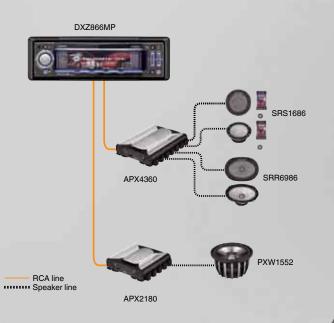
SUB- L LPF .







DXZ866MP System Plan



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



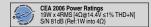
Equipped with the industry's first fully Integrated full-dot high-definition 16-grade greyscale VFD, the DXZ766MP expresses both text and moving pictures in super-high definition. The fashionable radiance of the unit combined with high-definition sound creates a sophisticated car audio-visual space.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







- 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



Motorised sloping console



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.



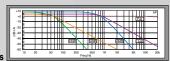
24-bit D/A converter

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.

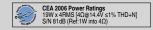


CD/MP3/WMA RECEIVER/CeNET CONTROL





• 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



Motorised sloping console



Rotary volume control



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.



Smart control key

Multicolour buttons

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 r egardless of the recorded media.



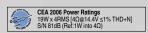
212 watts MOS-FET power amplifier
There's only one way for Clarion's DXZ666MP to deliver 4-channel x 53 watts of unyielding power output and superior linearity: MOS-FET amplification, or, otherwise known as Metal Oxide Semiconductor Field Effect Transmitter amplification. Smaller and more efficient than 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.



• 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



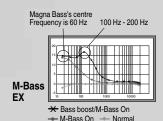


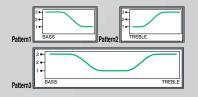


Rotary volume control

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.





Carion 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 information, such as playback status, artist name and various other information. 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 × 52 watts. What's more, it has 4-channel RCA (2 front channels + 2 rear channels) output, making it a truly versatile main unit with lots of possibilities for system expansion.

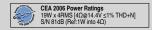


CD/MP3/WMA RECEIVER/CeNET CONTROL





- 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 CeNET iPod interface compatible



208W MOS-FET power amplifier



Flip down console



Detachable control panel







Retractable rotary volume and smart control

amplification, your music has never sounded quite like this.

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.

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



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 unit's 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 bulleting board for your vehicle, or utilize it as a memo pad.

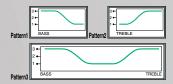
Intense black form that sets the energy of the original sound free

The 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. Both models are 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.



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.



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 does both.

|*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







Detachable Control Panel







- 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



Detachable Control Panel

System example based on DB266MP or DB166

This simple audio system delivers plenty of "bang for buck". Phaze One speakers deliver full-range audio to your vehicles interior, while the combined power of the APX1300 & SB series woofer produce clean, punchy bass.





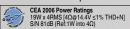
The essence of audio is alive in its design

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.



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 Screen-

saver • 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

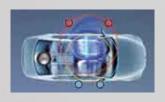


Built-in 6-disc CD changer & MP3/WMA file playback

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 information on the tunes being played.



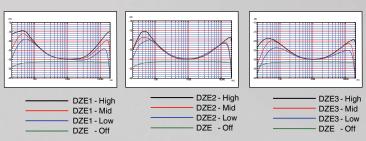
Listening Position Optimiser (LPO)

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.

antina			Right		Left	
setting		Distance	Sample	Distance	Sample	
seat position	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

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.



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

Furnished with a sharp, strikingly designed front panel. Vivid brightness and lustre 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
- iPod ready via EA1276B (sold seperately)



Front-panel

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/bass 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.

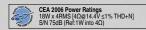
Compatibility with a wide range of media

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 About 350 minutes / 7CDs HO Mode SHQ Mode · About 250 minutes / 5CDs *1 album 50 minutes conversion







CD & cassette model equipped with EQ and speaker 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)

CEA 2006 Power Ratings 18W x 4RMS [4Ω@14.4V ≤1% THD+N] S/N 75dB (Ref:1W into 4Ω)

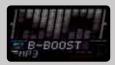
- Spectrum analyser
- Screensaver
- 2-channel RCA output
- 2-channel AUX input



CD loading slot

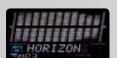
Flip down control panel

Graphic Equalizer Pattern









Spectrum Analyzer Pattern

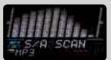


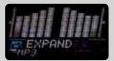












AX330

CASSETTE RECEIVER/ C-BUS CONTROL

Rotary Yolune Control Control

- C-BUS 6-CD changer control
- Z-Enhancer
- Auto reverse
- 4-channel x 40 watts amplification
- 20FM, 5AM station presets
- Green Illumination
- Rotary volume control

7-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.

