

MULTIMEDIA/MAIN UNITS



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



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.



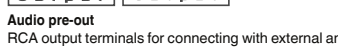
6-disc CD changer
The built-in 6-disc CD changer lets you enjoy your favourite music for long periods of time without the need for switching CDs. So now on long drives, you can listen to your favourite music albums to your heart's content.



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.



AMP Cancellor
When using an external amplifier, the power supply to the built-in amplifier can be switched off in order to prevent spurious radiation entering the signal and this way ensuring audio output of the finest quality.



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 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. Effective for CD playback too.
• Manufactured under license from BBE Sound, Inc.
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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.



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.



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 the S/N ratio 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.



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 subwoofer or tweeters are part of the system.



LPO (Listening Position Optimiser)
The WXZ468RMP'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.



OEL display
By using an OEL (Organic Electro Luminescence) display driven by film transistors, this front panel display can deliver images that are smoother than conventional LCDs, 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.



RDS-EON tuner
An enhanced receiver for the Radio Data System, which is in wide use throughout Europe. The symbol shows compatibility with the system, however the available services depend on the local radio stations.



RDS-TMC tuner
Provides instant road condition updates from local traffic control centres via RDS-TMC (Traffic Message Channel). Additionally, the re-route feature lets you avoid traffic jams by choosing other roads.



SLIDETRAK
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 SLIDETRAK.



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.



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.



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.

AMPLIFIERS/SUBWOOFERS/SPEAKERS



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.



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.



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



Full OFC wire
99.995% pure oxygen free copper is used for wiring in order to secure pure sound.



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



HX series
The HX series was derived from Clarion's perpetual quest for perfection. These speakers deliver breath-taking sound that takes the car listening experience to new heights.



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



In-phase coaxial
These speakers have been designed to accommodate a tweeter and woofer on the same axis, which as a result conveys crisp treble and vibrant bass to the listener's ears simultaneously.



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



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.



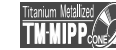
Rear-vented pole piece
To prevent pressure from building up inside the centre cap and causing increased amplitude distortion, a vent is provided on the rear of the pole piece.



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



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 Metallised MIP) 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-plated Glass Fibre) 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.



Wide-range 50/80/120 kHz silk dome tweeter
These super tweeters use soft silk dome diaphragms and high-power magnets to achieve rich expressiveness. They offer reproduction up to 50 kHz, 80 kHz or 120 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.