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# clarion

2008 – 2009



# clarion



## A dream comes true

Clarion H.M.I. is both a dream and reality.

A dream, in the sense that it is an ideal that we will always strive for.

A reality, since it is already present in its most up-to-date form in our products.

Integrating people with music and information in mobile environments.

Futuristic technology for people living in the real world.

That's the Clarion H.M.I. concept.



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



Jamiroquai

Jay Kay (Jamiroquai)  
"Jay Kay", vocalist for the world-famous  
jazz funk band Jamiroquai.



The world of sound and high-definition video are infused within Clarion technology, embodying the science of in-car-entertainment like no mobile experience you have ever embraced before. Clarion presents the future of H.M.I., by

delivering increased connectivity and seamlessly merging life in and out of the car. Hands-free communications are made wirelessly via Bluetooth while links with mobile media players are made simple by Clarion's advanced Human Machine Interface. DivX powered DVD viewing confirms Clarion's commitment to evolving technology. Always a step ahead of the curve, Clarion continues to deliver the ultimate adventure for the mobile electronic lifestyle.



## Clarion H.M.I. ACCELERATES INTO THE NEXT GENERATION OF MOBILE ENTERTAINMENT



### DESIGN & INTERFACE

Your music at your speed; Clarion delivers the technology today's music generation requires.

Clarion's advanced H.M.I. technology provides a dramatic transformation to your mobile lifestyle and breaks through the barriers of conventional thinking. Clarion pursues the merging of multimedia systems that link video and sound in perfect harmony. Technology delivers media mechanics such as the ability to handle DivX coded systems for compressed playback, and source units that will play WMDRM 10 formats with ease. These features are only the beginning, let Clarion show you the future of in-car-entertainment.



ADVANCED TECHNOLOGY

**Experience the next generation of mobile operation at the speed of now.**

Natural operation through interfaces a world apart from traditional source units give the feel of being a part of your system and allowing you to experience true H.M.I. The FB288RBT/FB289RBT stand out with solid design that breaks free from traditional architecture by delivering a three-dimensional interface. The VRX888RBT allows for intuitive operation by large touch screen panels that give access to the advanced user icons. The VRX388RUSB delivers intuitive operation via its D-pad (+key), and a built in 3.5 inch LCD Screen for smooth operation. Include Clarion's high-end source unit models such as the DXZ788RUSB, featuring the proprietary SLIDETRAK design which allows for fluid operation by simply sliding your finger across the face of the unit.

MEDIA & FORMAT

**Creating the bond between you and your car.**

Today's car audio enthusiast demand digital music connectivity, and Clarion facilitates this by delivering options for these state-of-the-art requirements. With that in mind Clarion has added connectivity abilities in our non-mechanical unit; features such as an SD card slot for on the go PC users, and a built in Bluetooth connection for mobile music devices such as MP3 players and mobile phones. Let Clarion open your world to new entertainment options for your digital lifestyle.

# MULTIMEDIA

'08

## TRANSFORM YOUR DRIVE WITH THE NEXT GENERATION OF MOBILE ENTERTAINMENT

Clarion Multimedia stations provide full-scale entertainment for those who need it all on the go. With the ability to support today's most current media options such as, DVD, CD, MP3, AAC, and interfaces which include Bluetooth and USB connectivity that seamlessly interface your car and life as one.

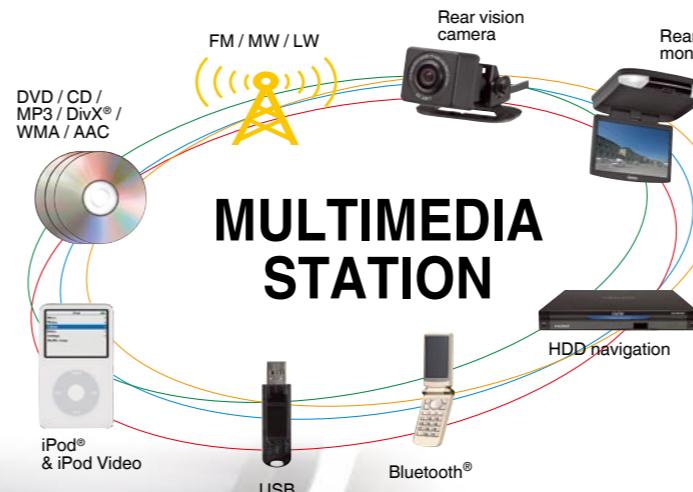


### A new world of digital technology; expanding the capabilities of Clarion H.M.I.

Enjoy your music as though you were sitting in your favourite artists recording studio. Clarion delivers products that are at the forefront of today's music delivery technologies. With playback features that include formats such as MP3, WMA, AAC and DivX, and USB access for direct connection to iPod and the ability to play MP3 via USB, Clarion has the connection for you. Clarion again integrates your life to your car, H.M.I. is not just a feature, it's a promise.

### The next era of in-car entertainment from today's most advanced technologies.

Clarion has included many advanced technologies and unique functions to the entire 2008 multimedia product line-up. Both Audiovisual and HDD Navigation systems offer best in class technology and performance while utilising technologies from the industries most trusted companies, including Bluetooth, DivX, and iPod just to name a few. Our HDD Navigation boasts the latest large capacity database that covers the UK and Western/Eastern Europe. Hands-free mobile phone operation as well as wireless streaming audio are supported by built in Bluetooth receivers in the VRX888RBT and MAX688RBT. These new feature offerings allow your daily life to merge with your mobile lifestyle.



### Rear-seat entertainment that truly defines the phrase "rear-seat".

High-definition monitors play back with unmatched quality and features. Clarion's 2-Zone feature gives front and rear passenger a truly separated entertainment experience, allowing for selected media sources to be accessed separately and simultaneously. The front seat can display navigation while the rear passenger can enjoy DVDs or video games via overhead or headrest monitors. These advanced audiovisual features are sure to make any longdistance road adventure even more exciting.



### Full line-up offers more choices to match your personal automotive lifestyle

Spearheaded by our top-of-the-line 40 GB HDD equipped MAX983HD, Clarion offers a full and diverse line-up to meet the unique needs of your automotive lifestyle. Take for instance the MAX688RBT or VRX888RBT with integrated HDD navigation, the VRX588RUSB in a compact 1-DIN size yet equipped with a big 7-inch flip-out monitor, the VRX388RUSB with an integrated 3.5-inch monitor, and the portable MAP780/680 that expands the horizons of navigation far beyond the car. Your personal automotive lifestyle is bound to find a perfect match.

Navigation		Multimedia Station			
		MAX983HD	MAP780 / 680	MAX688RBT	VRX888RBT
		All-in-One 2DIN CeNET HDD AVN	Portable navigation system	2-DIN CeNET multimedia station	CeNET multimedia station
Navigation	Built-in HDD 40GB	Built-in 2GB (MAP780) 1GB (MAP680)	Option HDD 40GB	Option HDD 40GB	—
SD card	Music	Movie, Music & Picture	—	—	—
iPod	●	—	● via USB	● via USB	● via USB ● via USB
USB Memory	—	—	● Rear USB connection	● Rear USB connection	● Rear USB connection ● Rear USB connection
Bluetooth	Optional BLT583	Built-in Bluetooth	Built-in Bluetooth	Built-in Bluetooth	Optional BLT373 Optional BLT373
AUX Input	1AV	—	1AV	1AV	1AV
CCD camera	●	—	●	●	●
OEM Remote control	● Mini Jack	—	● Mini Jack	● Mini Jack	● Mini Jack

The Clarion H.M.I. concept is writing a new page in history with the MAX983HD.

The flagship all-in-one AV-N model features a 40 GB HDD to cram a host of functions into a single unit along with powerful images and sound. Map data displays instantly thanks to the high-performance navigation engine. The Music Catcher stores your favourite tunes for an in-car jukebox experience, and the Clarion NAVI Manager acquires CD title information. The model also offers 2-Zone expansibility, and Bluetooth® and iPod® control support for peripheral equipment.

**The fusion of high-end video and sound with high-performance navigation opens the door to next-generation motoring life.**



## MAX983HD

HDD NAVIGATION & DVD MULTIMEDIA STATION WITH 7" TOUCH PANEL CONTROL



- Motorised sloping control panel with 7-inch QVGA TFT colour LCD monitor
- Touch screen operation
- 400 MHz CPU
- 40 GB Hard Disk Drive
- 1 AV input
- 1 Video output and 2-channel audio output for second zone
- Microphone for voice recognition
- CeNET control of TV tuner and Bluetooth® interface adapter BLT583
- DVD±R/RW/CD-R/RW ready
- MP3 and WMA compatible with ID3-TAG display
- 18 FM, 6 MW/LW station presets RDS-EON DSP tuner with variable bandwidth
- 24-bit D/A converter
- SD Card slot for MP3/WMA playback and data installation with "Clarion NAVI manager" PC application



- Built-in "Music Catcher" with Gracenote® music recognition service
- 3-band parametric equaliser
- MAGNA BASS EX dynamic bass enhancement
- 4-channel x 53 watts of MOS-FET amplification
- OEM steering wheel remote wired interface capability

- iPod® direct connection and control (requires optional cable CCA692)
- CCD camera input
- MAX983HD is compatible with MP3/WMA on DVD±R/DVD±RW CD-R/RW media formats. Maximum track capacity: 512 tracks (255 folder) with max. 512 tracks per folder • The LCD panel uses the latest high-tech components and boasts an effective pixel rate of 99.99%. However, aware that 0.01% or less of the pixels may be defective. • WARNING: The driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion. • There is no guarantee that all units in this catalogue can play CDDA (Copy Control CD), Hybrid SACD (Super Audio CD), CD-R/RW and DVD+R/RW. \*Please see the Clarion website for iPod models that can be connected. \*Playlists of mixed music and movie files cannot be played on iPod video compatible units.

- **Route information:** next manoeuvre, traffic information, guidance information, repeat guidance and display destination • Auto-reroute • Route calculation using traffic information • Pop-up traffic information (Premium TMC service supported)
- Speed limit information • Safety camera compatible
- Extra POI compatible • Route guidance: estimated time of arrival, road name of next manoeuvre, manoeuvre display, crossing zoom • Turn list mode
- **Store location and edit location:** maximum 200 points
- **User profile function:** items can be stored for 4 different users

### High-definition NAVTEQ Maps

The unit adopts NAVTEQ's digital map data which offers unrivalled accuracy. Unique compilation technology acquires information from the viewpoint of the driver to create a database of motorways, main roads, side roads and non-urban areas to a common specification around the world.

### MAP COVERAGE

**Western Europe:** Andorra, Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Monaco, the Netherlands, Norway, Portugal, San Marino, Spain, Sweden, Switzerland, UK, the Vatican

**Eastern Europe:** Bulgaria, Croatia, Czech Republic, Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia

For more detailed information concerning installation possibilities, please refer to the CIP (Clarion Installer Programme) on page 32-33

### NAVIGATION

• **Voice recognition and Text to speech:** German, French, UK English, Italian, Spanish, Dutch

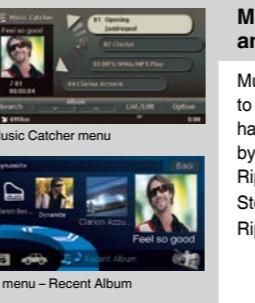
• **Voice guidance and Screen text:** English, German, French, Italian, Dutch, Spanish, Portuguese, Swedish, Danish

• **Map scale:** 25m/50m/100m/200m/500m/1km/2km/4km/16km/64km/256km

• **Day/Night map colour change:** automatic and manual • Highway interchange zoom with split screen • Address search function including house number search, POI name search, category search, nearby search and postal code search

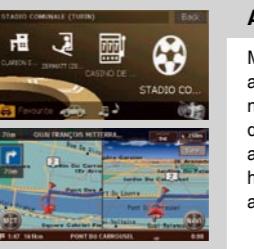
• **3D menu:** user's favourite location, frequent location and recent album list.

• Multiple route calculation: shortest, fastest, minimise motorways and more detail setting (toll road, time restriction, avoid area, ferry)



### Music Catcher: High speed recording and large storage capacity

Music Catcher is a function which enables listeners to store favourite tunes and albums on the built-in hard disk. You can enjoy music from the hard disk by making your own "favourite collection" of songs. Ripping speed: Maximum 8 times recording Storage capacity: Maximum 4,000 songs Ripping format: High quality Atrac 3 / 132 Kbs



### An Integrated AV-N Unit

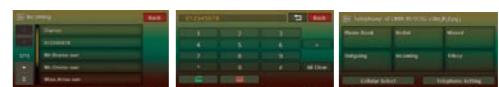
MAX983HD is an integrated AV & Navigation unit with a huge 40 GB hard disk. It integrates sophisticated navigation functions, such as graphic display of map data, destination search and route calculation/guidance, with impressive entertainment options, e.g. high-quality reproduction of audio and visual media and 2-Zone playback.

### DVD Video-ready

A high resolution monitor is employed, which can reproduce high quality video images from such sources as DVD videos. The system has been upgraded to 2-Zone functionality to offer different entertainment sources in the front and rear seats. For instance, the driver can enjoy music while receiving navigation guidance on the dash-mounted unit, while rear passengers can enjoy DVD videos on separate monitors.



### BLUETOOTH INTERFACE



### Hands-free phone conversation via Bluetooth® receiver promotes safe driving

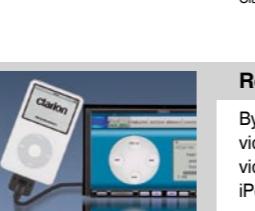
The optional Bluetooth interface adapter connects your main unit to Bluetooth-ready mobile phones without wires enabling you to talk hands-free on your phone. When a call is received, music is interrupted and the voice of the caller is heard through the speakers of the car audio system. There is no need to hold the phone, simply talk into the supplied microphone.

### BLT583

#### CeNET BLUETOOTH INTERFACE ADAPTER

- Compatible with MAX983HD • Headset and hands-free profile • Controls mobile phone book directly from touch screen: 500 persons, 5 numbers per person\*

Displays name / calling number / outgoing calls / missed calls\* • Automatic receive function\* • Redial function\* • Voice recognition control\* • On-screen information of battery level, signal strength\*



### Ready for iPod Audio/Video

By connecting an iPod Video, you can access its video library and enjoy playback of music, photos and videos on the wide monitor screen. The connected iPod is automatically recognised and can be fully controlled via the main unit display.

\*CCA692 iPod video connecting cable is required



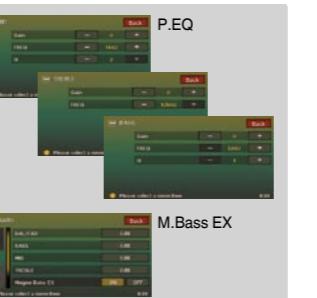
### Ready for CCD rear view camera

A CCD rear view camera can be connected and rear views from the camera can be monitored on the TV screen in the car. This broadens the view from the cockpit and promotes safety when reversing thanks to a detailed view of what's behind the car.



### 3-band parametric EQ & Magna Bass EX

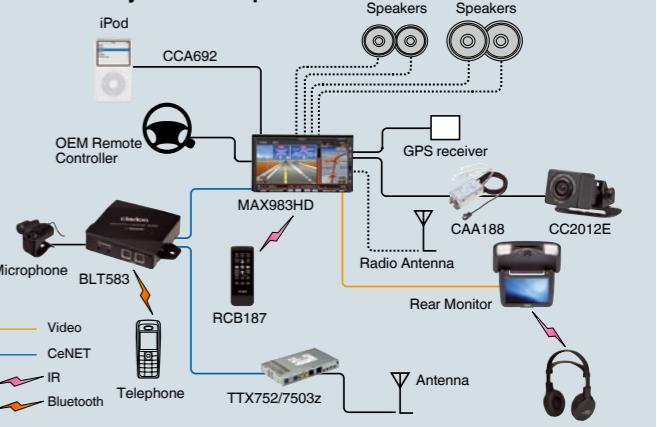
Dividing the sound spectrum into 3 bands, the parametric EQ allows equalising of the frequency curve for customisation of the sound character according to the speakers used and the acoustic properties in the car. Moreover, Clarion's Magna Bass EX boosts the bass by nearly 10 dB at low frequencies around 50 Hz, automatically compensating for the volume level to ensure well-balanced dynamic bass at any level.



### High-quality 24-bit D/A converter

Digital sound is made up of unnaturally square sound waves, as opposed to the smoothly undulating sound waves characteristic of the real-world environment. Clarion's high-quality 24-bit D/A converter recreates those lost nuances and natural expressions of sound during the reproduction process, when sound is converted from digital back to its audible analogue form.

### MAX983HD System Example



## High-level functions and usability guide the driver to the destination with certainty.

The high-speed HDD enables high-definition map displays. The comprehensive navigation functions include 3D guidance using junction displays with motorway signs, RDS-TMC traffic information, and enhanced 3D Favourite, Frequent, Recent Album menus, while a shell screen is adopted to provide clearer layout of the main functions. The interface, which provides the point of contact between the user and information, images and operations fully embodies Clarion's H.M.I. philosophy.

Touch the icon on the menu screen to display the menu ring screen.



### Register up to 16 icons for each of the three spinning rings.

This new style of 3D menu features three genres of menu rings—Favourite, Frequent, and Recent Album. Call up the contents you want or destinations from the menu rings floating in a graphical 3D space.

#### Favourite List

Customise and register destinations from the Frequent menu.

#### Frequent List

Places you often visit are automatically registered.

#### Recent Album

Songs you have recently listened to are automatically registered.

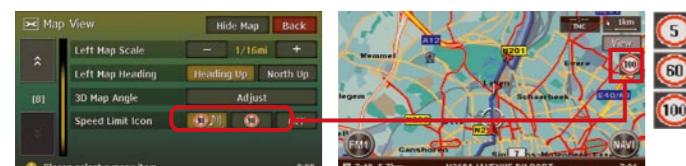


### Smart, simple and direct control on touch-panel display



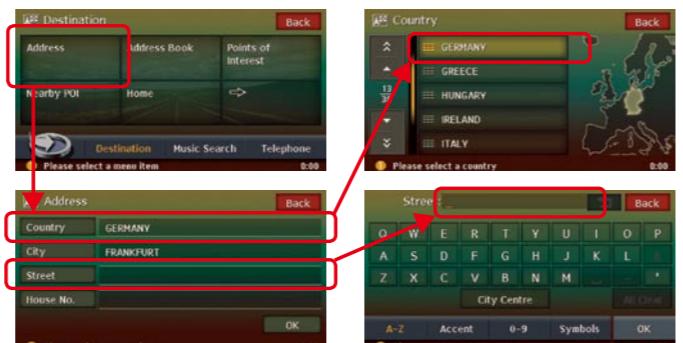
Smart touch-panel controls enable you to access information at the touch of a fingertip. Layouts are devised to enable instantaneous display of desired information, while detailed information easily can be called up with a touch of your fingertips.

### Speed Limit Displays Support Safe Driving



The map data does more than provide road shape information and road attributes for each country. Speed limit information is also displayed to remind speeding drivers and to promote safe driving.

### Search screen



A destination can be searched for in various ways and shown on the screen quickly. Searches are possible by known address, either by narrowing down from a country-by-country display or simply by entering the destination with letters and numbers on the address input screen.

### Ready for rear view camera

Install a CCD camera on the back of the car and see what's behind the vehicle when you put the car in reverse. The CCD camera can be linked to the MAX983HD, MAX688RBT and VRX888RBT with the CAA188 adapter for a clear view of what's behind you. Great for parking in tight spots!



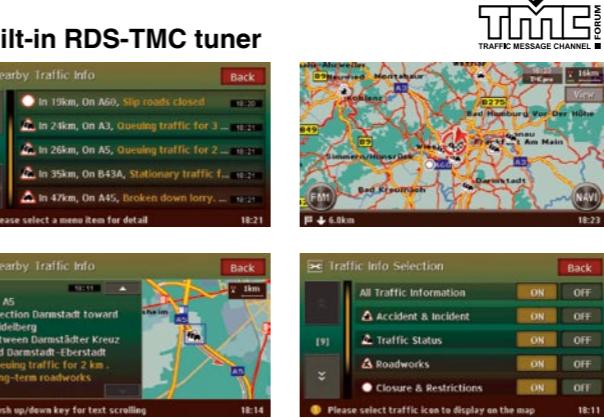
#### NAVIGATION ACCESSORY

##### CAA380 SPEED PULSE GENERATOR

(For vehicles without speed-pulse signal)



### Built-in RDS-TMC tuner



An RDS-TMC tuner is built in. This provides you with timely traffic information collected by the local police, municipalities, etc. and broadcast via the Traffic Message Channel.

### Guidance screen



An automatic crossing zoom screen guides you at crossings, roundabouts and intersections where it is easy to get lost. The intersection illustration uses a 3D display with clear directions and signs where to head. Furthermore, "turn lists" and "turn-by-turn mode" smoothly guide you all the way to your destination.

### Clarion HDD navigation available with 3 models: integrated AV & Navigation unit or a hideaway unit

Choose from 3 great models: the flagship unit MAX983HD, an integrated AV & Navigation unit with 40 GB HDD and high-speed navigation calculations or the VRX888RBT or MAX688RBT which connects to discrete, hideaway navigation units.



**MAX983HD**  
HDD navigation & DVD multimedia station with 7" touch panel control (Built-in navigation)



**MAX688RBT**  
2-DIN DVD multimedia station with 7" touch panel control, USB and built-in Bluetooth (Works with NAX983HD)



**VRX888RBT**  
DVD multimedia station with 7" touch panel control, USB and built-in Bluetooth (Works with NAX983HD)

### NAX983HD

#### HDD NAVIGATION SYSTEM WITH CeNET



An installation friendly GPS antenna and microphone provide additional flexibility and safety.

	NAX983HD	NAX973HD	NAX963HD
MAX688RBT	●	●	●
VRX888RBT	●	●	●
MAX678RVD	●	●	●
VRX878RVD	●	●	●
MAX668RVD	●	●	●
VRX868RVD	●	●	●
VRX588RUSB	●	●	●
VRX388RUSB	●	●	●
VRX578RUSB	●	●	●

### Change of map display and split screens



Display screens can be selected from 2D display, 3D display for enhanced recognition, or split-screen displays of 2D + 2D or 2D + 3D. Intelligent guidance is realised by means of showing your car's position on a sub-display with intersection illustrations and signs.

### Changeable skin design



Icons and background patterns can be customized to suit the taste and image of your car.

This skin is an original creation for Clarion by Giugiaro Design (Italy). To upgrade your HDD navigation layout, you can download different skin files from [www.clarion.com](http://www.clarion.com).

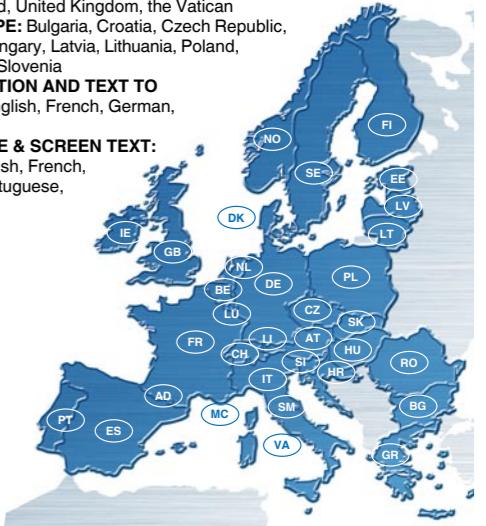
### Map data included <33 countries>

• **WESTERN EUROPE:** Andorra, Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Monaco, The Netherlands, Norway, Portugal, San Marino, Spain, Sweden, Switzerland, United Kingdom, the Vatican

• **EASTERN EUROPE:** Bulgaria, Croatia, Czech Republic, Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia

• **VOICE RECOGNITION AND TEXT TO SPEECH:** Dutch, English, French, German, Italian, Spanish

• **VOICE GUIDANCE & SCREEN TEXT:** Danish, Dutch, English, French, German, Italian, Portuguese, Spanish, Swedish



### GENERAL

#### Hide-away type HDD navigation

- 40 GB Hard Disk Drive

- 12-channel GPS receiver

- Built-in gyro sensor and RDS-TMC tuner for traffic information

- Vehicle speed pulse input

- USB interface for back up of user data and change of wallpapers

### NAVIGATION

#### High resolution motorway sign-board graphic on interchange with split screen mode

- 3D menu: user's favourite and frequent list

- Multiple route calculation

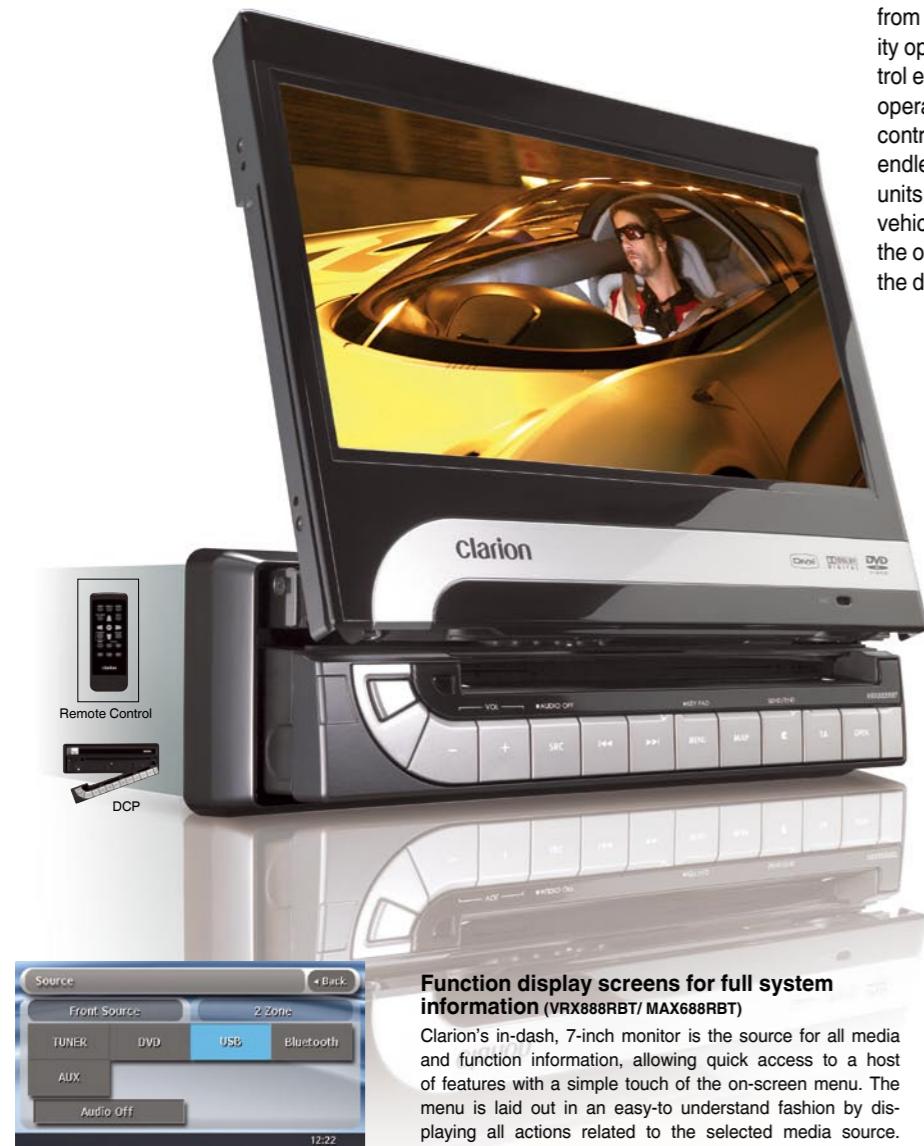
- Postal code & PINPOINT search

- Pop-up traffic information (Premium TMC service supported)

- Safety camera compatible

INCLUDED IN THE PACKAGE: GPS antenna • Q4 2007 NAVTEQ map data on Hard Disk Drive (with 33 countries) • Microphone for voice recognition • CeNET cable and RGB cable • TMC antenna • DIMENSIONS: 205 (W) x 29 (H) x 160 (D) mm

**The look of sophistication with functionality to accelerate your mobile experience**



Brains, beauty, and brawn. The VRX888RBT has it all, from its flowing cosmetics to the unparalleled connectivity options. Your search for the ultimate multimedia control ends now. Large buttons stand out to achieve superb operability, and the 7-inch touch screen allows real world control. Compatibility with DivX and iPod Video allow for endless viewing options, whether being viewed on the units built-in 7-inch flip monitor or shared throughout the vehicle utilising the included dual zone feature. Throw in the optional HDD Navigation, and this unit meets all of the demands of a full-scale Multimedia Station.

**Bluetooth®  
VRX888RBT**

DVD MULTIMEDIA STATION  
WITH 7" TOUCH PANEL CONTROL,  
USB AND BUILT-IN BLUETOOTH

**VRX888RBT/ MAX688RBT FEATURES**

- DVD-Video/DVD±R/DVD±RW/CD-DA/CD-R/RW ready • MP3/WMA/AAC Compatible with ID3-TAG display • Official DivX Certified product
- Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • 24 FM, 16 MW/LW station presets • RDS-EON DSP tuner with variable bandwidth and Radio Text
- Rear USB connector • WMDRM10 playback via supported MTP device (rear USB) • Fully motorised 7-inch QVGA colour LCD monitor (VRX888RBT) • Motorised sloping control panel with 7-inch QVGA colour LCD monitor (MAX688RBT) • iPod direct control via USB

**Function display screens for full system information (VRX888RBT/ MAX688RBT)**

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

**Digital media ready (DivX®)**

DivX is a common media language that delivers a pure digital experience. Clarion has provided DivX playback on most of its 2008 in-dash video line-up. DivX enriched video files deliver superior video quality and enables storage of more information on a single disk. Once again Clarion delivers the features you expect.

**Navigation control with NAX983HD**

An up-to-date, information database covering 33 European countries integrated with a high-speed CPU. Easy to read 3D menus combined with convenient icon displays and intuitive operation for ease of use. This is smart navigation that promotes comfort and enhances safety while driving.



**Direct USB iPod® control**

You no longer need an expensive adapter box or interface cable to connect your iPod to your Clarion source unit. Simply connect the USB cable included with the iPod to the rear USB input for battery charging and complete control of your iPod.\* Not only an iPod but also many different mobile storage devices can be connected to the rear USB connector with up to 130,560 music files (512 folders with 255 files per folder).

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



**Built-in Bluetooth® for handsfree Calling**

Mobile phones have become a necessity in business and in life. Clarion has once again broken the connectivity barrier by incorporating Bluetooth connectivity in both the VRX888RBT and MAX688RBT. A Bluetooth-capable mobile phone can deliver your phone calls through the vehicle's audio system for hands-free communication.



**Built-in Bluetooth Audio Streaming (A2DP & AVRCP)**

**2-Zone entertainment**

The enjoyment of different sources for front and rear passengers, without interfering with each other, is possible with Clarion's 2-Zone entertainment system. A new driving experience is brought about in which the driver and front passenger can listen to music and watch navigation information on a dash-mounted unit while rear passengers can enjoy DVD on rear-mounted screens.



**Hands-free calling and advanced navigation functionality — all rolled into one multimedia station model**



Enjoy powerful video from the wide 7-inch screen and the flexibility to expand and enhance your system by adding Clarion's NAX983HD Hard Drive Navigation. Linking your iPod has never been easier with the new USB iPod direct connection. New for 2008 is a built-in Bluetooth receiver, which makes connection to Bluetooth enabled devices such as Portable Device and mobile phones quick and easy. Clarion has once again delivered the ultimate Multimedia Station.

**Bluetooth®  
MAX688RBT**

2-DIN DVD MULTIMEDIA STATION  
WITH 7" TOUCH PANEL CONTROL,  
USB AND BUILT-IN BLUETOOTH

Remote Control



\*VRX888RBT/MAX688RBT is compatible with MP3/WMA/AAC on DVD±R/DVD±RW/CD-R/RW media formats. Maximum track capacity: 999 tracks (255 folders with max. 255 tracks per folder) \*VRX888RBT/MAX688RBT is compatible with MP3/WMA/AAC on USB. Maximum track capacity: 130,560 tracks (512 folders with max. 255 tracks per folder) \*Playlists of mixed music and movie files cannot be played on iPod video compatible units.

**Windows Media Digital Rights Management (WMDRM) 10 format supported**

Background patterns of the navigation system and audio & visual sources can be customised to suit your taste and the image of your car.



**High Pass/Low Pass Filter**

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

**6-channel RCA line output**

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



**24-bit DAC**

Noise generated by conventional DAC IC's are distributed randomly throughout the spectrum, including the audible range. To circumvent this, Clarion adopts a high-performance 24-bit DAC normally only found in expensive home audio systems. Not only does it cancel out unwanted noise well into the non-audible high frequency range, but it also extends the S/N ratio for clearer, more realistic sound.

**CCD rear camera via RCA input helps confirm what's behind you**

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



The VRX588RUSB takes high-end multimedia to the masses. Equipped with iPod user interface with video playback, a USB terminal, 2-Zone entertainment and compatibility with the Clarion BLT373 Bluetooth® interface, the VRX588RUSB provides you with functionality like you'd never expected.



#### 200 watts MOS-FET power amplifier

There's only one way for Clarion's VRX588RUSB/VRX388RUSB to deliver 4-channel x 50 watts of unyielding power output and superior linearity: MOS-FET amplification, or, otherwise known as Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuitry delivers power with less distortion and zero On/Off switching noise. So turn it up or down for easy listening. MOS-FET amplification — your music has never sounded better.

#### iPod Audio and Video playback

The iPod has revolutionised the portable media industry like nothing before. Clarion's dedication to integration with the iPod is unsurpassed. It features both iPod audio control and iPod Video playback.

\* CCA691 iPod connecting cable for music and video playback is required.



#### Rear USB terminal

Plug in a USB key in your VRX588RUSB or VRX388RUSB to access up to 12,000 tracks of MP3, WMA or AAC files from iTunes®. You can also enjoy MP3 ID3-TAG data on Disc media, giving you album, artist and track information. The maximum number of folders supported is 255 with up to 12,000 tracks per folder.



#### DivX®

Both Clarion multimedia stations play DivX files. DivX has become the world's most popular video compression format, allowing you to bring videos with you whenever and wherever you wish.

#### DVD±R/DVD±RW playable

Both units are compatible with MP3/WMA/DivX on DVD±R/DVD±RW media formats. To enjoy hundreds of hours of your favourite music you can burn up to 3,000 tracks on a single DVD split into 255 folders with maximum 3,000 tracks per folder.



#### 2-Zone entertainment

Keep everyone entertained with 2-Zone entertainment: listen to your favourite radio station while your rear seat passengers enjoy a DVD movie via any of Clarion's fine rear seat entertainment products.



**Sophisticated functions and easy operation.  
Setting new standards for features  
and performance.**

## VRX588RUSB

DVD MULTIMEDIA STATION  
WITH 7" TOUCH PANEL CONTROL



**Nobody knows H.M.I. like Clarion.**  
That's why we created the VRX588RUSB with a user interface that's intuitive and easy to use, even when driving.

#### VRX588RUSB / VRX388RUSB FEATURES

- DVD±R/DVD±RW ready • CD-R/RW ready • MP3 and WMA and iTunes® AAC (only USB) • Compatible with ID3-TAG display (only for MP3 discs) • Official DivX® Certified product • Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files • Rear USB connector • 18 FM/6 MW/6 LW station presets • iPod direct connection and control (requires optional cable CCA691) • Shockproof memory • 24-bit D/A converter • Subwoofer volume control • 2-Zone entertainment: front and rear separate source control • Z-Enhancer Plus sound customisation • 2-band

Clarion understands the needs of mobile entertainment enthusiasts are ever changing.

To keep up with these needs, we introduce the VRX388RUSB. This 1-DIN unit offers features like 2-Zone entertainment, iPod control and a USB terminal for the ultimate in in-dash performance. Integrate the VRX388RUSB into your car with our OEM Steering Wheel control input or add a rear-view camera to make reverse parking easier and safer than ever. The VRX388RUSB puts multimedia and convenience where you'd never expect it.



**Entertainment delivered like never before**

## VRX388RUSB

DVD MULTIMEDIA STATION  
WITH 3.5" MONITOR



- Adjustable display brightness • Phone mute • 1 AUX AV input (2-channel audio +video) • 6-channel audio pre-out Filter • Built-in amplifier canceller • 4 channel x 50 watts of MOS-FET amplification • Fully motorised 7-inch TFT colour LCD monitor (VRX588RUSB) • Motorised sloping control panel with 3.5-inch TFT colour LCD monitor (VRX388RUSB) • Touch panel control (VRX588RUSB)
- parametric equaliser • MAGNA BASS EX dynamic bass enhancement • Built-in High Pass Filter & Low Pass Filter • AUX Bluetooth audio/ mobile-phone transceiver BLT373 ready • OEM steering wheel remote interface capability • CCD camera input via video line-in with reverse gear connection • Detachable control panel

- \* The LCD panel uses the latest high-tech components and boasts an effective pixel rate of 99.99%. However, be aware that 0.01% or less of the pixels may be defective.
- \* WARNING: The driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.
- \* There is no guarantee that all units in this catalogue can play CDD (Copy Control CD), Hybrid CD (Super Audio CD), CD-R/RW and DVD-R/RW.
- \* DivX®, DivX® Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
- \* Playlists of mixed music and movie files cannot be played on iPod video compatible units.

For more detailed information concerning installation possibilities, please refer to the CIP (Clarion Installer Programme) on page 32-33

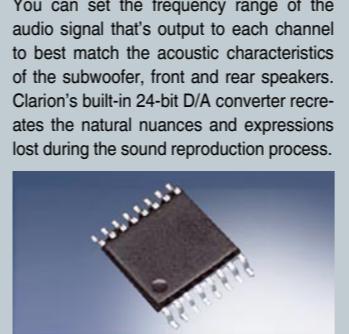
#### 6-channel RCA line output

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

#### Bluetooth BLT373 Ready

Bluetooth enabled mobile phones achieve hands-free calling to support safe driving.

By linking to the BLT373 you can easily listen to the music on your mobile phones through your car audio system.



OEM Remote & Steering Wheel

Bluetooth Ready BLT373

Rear-View Camera

Video Camera (AUX)

iPod Audio & Video

USB MP3 / WMA / AAC

Multimedia station

VRX588RUSB

VRX388RUSB

Amplifier

DVD / CD MP3 / WMA / DivX MPEG4 / JPEG

FM / MW / LW

#### Multimedia station

Clarion knows connectivity and so do the VRX588RUSB and VRX388RUSB. They are equipped with a USB terminal for easy access to your music collection, Bluetooth compatibility via the BLT373, an OEM Steering Wheel control interface input and a rear view camera input. Combine this with MP3/WMA and iTunes® AAC file format decoding, iPod® audio and video connectivity and 2-Zone entertainment. Clarion offers everything you ever wanted.





## Home Theatre? We prefer "In-Car" theatre. Clarion's overhead monitors combine the comforts of a home system, in your back seat.

"Are we there yet?" That sentence will become extinct once you install a Clarion rear seat overhead entertainment system. Featuring monitor sizes ranging from 8-inch to 15-inch which include a built in DVD player and wireless headphone transmitters - peace of mind is only button press away. Our TFT active matrix LCD monitors reproduce vivid colours and provide crisp, clear viewing of your favourite DVDs. Now the problem will be getting your kids out of the car when you reach your destination.



### OHM1588VD

**15.4" OVERHEAD MONITOR  
WITH DVD DRIVE AND TWO  
IR HEADPHONES INCLUDED**



- Universal slim profile • MPEG 1/2/4, MP3 and WMA playback
- Adjustable display modes: Wide/Normal • Infrared remote control with on Screen display • 2 Audio/Video inputs for external devices
- 1 Audio/Video output for multiple monitor applications
- Built-in dome light



- 2 sets of headphones are supplied with the OHM1588VD and OHM1088VD. 1 headphone set is supplied with the OHM888VD.



### OHM888VD

**8" OVERHEAD MONITOR  
WITH DVD DRIVE AND ONE  
IR HEADPHONE INCLUDED**



### OHM1088VD

**10.2" OVERHEAD MONITOR  
WITH DVD DRIVE AND TWO  
IR HEADPHONES INCLUDED**

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license. The LCD panel uses the latest high-tech components and boasts an effective pixel rate of 99.99%. However, be aware that 0.01% or less of the pixels may be defective. There is no guarantee that all units in this catalogue can play CCCD (Copy Control CD), Hybrid SACD (Super Audio CD), CD-R/RW and DVD±R/RW.

## With Clarion multimedia loaded in your vehicle, your back seat might become your home away from home.

Driving doesn't have to be a voyage from point A to B, it can be a journey full of vivid imagery and sound in your rear seat. Have your favourite movies and video games waiting for you whenever you are ready.



### VMA773

**7"/16:9 HEADREST/  
STAND-ALONE MONITOR**

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

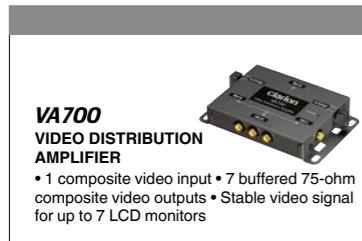


- 2 A/V inputs (line-out from pigtail and minijack input on the front panel) • Dual channel IR audio output transmitter for WH253H • Headrest mounting bracket included • Minijack headphone output

### VMA573

**5.6"/16:9 HEADREST/  
STAND-ALONE MONITOR**

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



**WH143H INFRARED WIRELESS SINGLE HEADPHONE**  
**WH253H DUAL CHANNEL INFRARED WIRELESS SINGLE HEADPHONE**

WH143H: Single headphone to be used in conjunction with one overhead or headrest monitor. Suitable for both adults and kids. Auto power off when no signal received for 30 sec.

WH253H: Dual channel infrared wireless single headphone. To be used in conjunction with rear entertainment systems based on one overhead monitor or two headrest monitors. Suitable for adults and kids. Auto power off function.

## ACCESSORIES



## Bluetooth® technology enhances your motoring life

A safer and more amenity-rich communication and music environment begins its metamorphosis in your in-car space. Bluetooth technology wirelessly connects mobile phones and the head unit, enabling hands-free use. Just speak with your hands firmly on the wheel and the other party will hear you. And you, likewise, can hear the person you are talking to from your car's speakers.

### BLT583



#### CeNET BLUETOOTH INTERFACE ADAPTER

- High-Quality Bluetooth module with CeNET • Echo canceller & Noise reduction chip • Maximum number of partnerships: 5 mobile phones (hand shaking with 1 mobile phone) • Automatic connection with last phone\*
  - Download/Update mobile phone's phonebook to BLT583 and control from main unit\* • 500 contacts per mobile phone can be transferred including 5 categories per contact
  - Private mode (transferring call to mobile phone) • Manual and automatic receive function (after 4 sec.) • Number dialing: keypad / incoming calls / outgoing calls / missed calls
- \* Depends on mobile phones. For more compatibility information, please refer to the Clarion website.



**COMPATIBILITY:** Hard key control with DXZ788RUSB, DXZ588RUSB, DXZ388RUSB & DUZ388RMP



**COMPATIBILITY:** Touch screen control with MAX983HD & MAX973HD

## AUX Bluetooth interface with Handsfree and Audio Streaming capability.

### BLT373

#### BLUETOOTH AUDIO STREAMING AND HANDSFREE INTERFACE FOR AUX INPUT

- Headset and handsfree profile • Bluetooth Audio Streaming and Remote Control capability (A2DP and AVRCP) • Built-in microphone for handsfree use



**Bluetooth®**

**AUX Bluetooth audio/  
mobile-phone transceiver BLT373 ready**



**DXZ788RUSB**  
**DXZ588RUSB**  
**DB288RUSB**  
**DU278RMP**  
**DZ388RMP**  
**DZ278RMP**



**VRX588RUSB**  
**VRX388RUSB**



## iPod and Clarion: the perfect combination for mobility, safety, integration and ultimate quality.

### Direct iPod connection



**CCA692**  
iPod AUDIO AND VIDEO  
CONNECTING CABLE  
For MAX983HD & MAX973HD

**CCA691**  
iPod AUDIO AND VIDEO  
CONNECTING CABLE  
For VRX588RUSB, VRX578RUSB  
& VRX388RUSB

**CCA673**  
iPod AUDIO AND VIDEO  
CONNECTING CABLE  
For MAX678RVD, VRX878RVD,  
MAX668RVD & VRX868RVD

**CCA723**  
iPod VIDEO CONNECTING  
CABLE  
For MAX688RBT & VRX888RBT

### CeNET - iPod Interface

Interfaces to enjoy iPods with  
full operation



**EA1276**  
iPod CONNECTION INTERFACE  
For '07 CeNET models to enjoy iPods with full operation.  
DXZ778RUSB, DXZ578RUSB, DXZ378RMP & CMD5

Interfaces to enjoy iPods with  
simple operation as with  
CD changers



**EA1251E**  
iPod CONNECTION INTERFACE  
For WX2468RMP and older CeNET  
models to enjoy iPods with simple  
operation as with CD changers.



## Drive smart. Negotiating road, traffic, and communication has never been easier.

MAP780/680 is the ultimate navigation unit. With simple destination input, turn-by-turn voice prompts, text-to-speech operation and selectable route guidance, this unit is all about convenience. It even has instant recall of your last destinations and includes an astounding number of points of interest in its database.



## MAP780/680

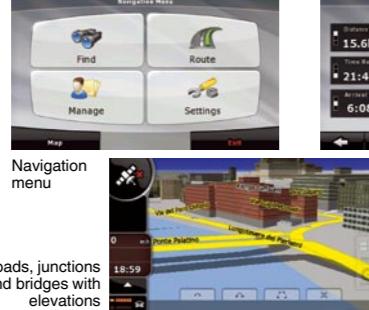
### PORTABLE NAVIGATION



- GENERAL:**
- 4.3" wide colour LCD with touch panel control
  - Anti-reflection screen for sunlight protection
  - Built-in RDS-TMC tuner for traffic information
  - Built-in Bluetooth® interface for Handsfree and Audio Streaming (A2DP)
  - Sirf III GPS module with 20-channel receiver
  - 400 MHz CPU
  - Flash memory: 2 GB (MAP780) / 1 GB (MAP680)
  - SD / MMC slot for up to 4GB capacity
  - Lithium ion rechargeable battery
- COMPACT SIZE:** 132 (W) x 90.5 (H) x 22 (D) mm

## NAVIGATION

- HIGHLIGHTS\***: 3D buildings, 3D landmarks, Modelling terrain in 3D
- Lane information
  - Text to Speech
  - Speed limit information
  - Safety camera compatible
  - Interactive 2D & 3D map view
  - Smart zoom
  - Cross border routing
  - Rich POI data base
  - Extremely fast route calculation and rerouting



## ENTERTAINMENT

### Movie Player



Enjoy portable cinema function anywhere with popular movie format, through MMC or SD card up to 4 GB.

### Music Player



Transform your MAP navigation system instantly into a handy touch screen MP3/WMA compatible music player.

### Digital photo album



Create your own personal photo album and share it with friends wherever you go.

## COMMUNICATION

### Bluetooth®



### TMC

Receive instant traffic information through the built-in TMC receiver. The MAP780 / MAP680 can receive toll-free traffic information (TMC). You are always informed whenever new information is broadcast.

## Roads, junctions and bridges with elevations



Elevation information on the road network is used to draw and superimpose roads and bridges in a realistic way, depicting their real height and casting a shadow. This precise and easily comprehensible mapping enables accurate manoeuvring even at complex junctions, without any confusion or misunderstanding.

## Lane information



Lane information shows which lanes allow you to exit and which ones continue ahead. All lanes on the same road segment are rendered, with the lane needed highlighted. Rendering is quick and accurate so you're always in charge, and coupled with the 3D rendered buildings and landmarks, it gives you an intuitively familiar view of the navigation route you are taking.

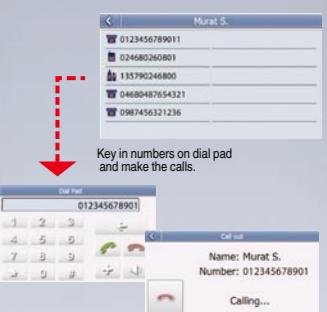
## 3D Buildings



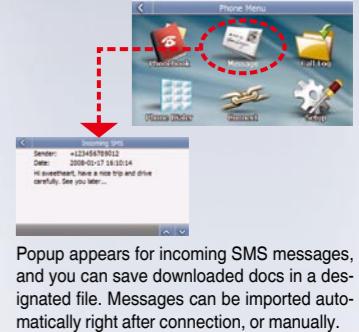
Two separate high-performance technologies are used for drawing 3D buildings near and far. Buildings close to you are drawn up as transparent objects so as not to obstruct the view of the next intersection. Buildings further down the road are textured and completely opaque, making them look lifelike and easily recognisable as reference points while driving.

## Make a call from the touch screen

Quick and easy, all you have to do is touch the name on the phonebook screen to call out. If that name has multiple stored phone numbers, you can select which one to call. And of course, you can also manually key in the number you wish to call.

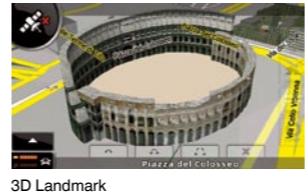


## SMS (Short Message Service)



Pop-up appears for incoming SMS messages, and you can save downloaded docs in a designated file. Messages can be imported automatically right after connection, or manually.

## Elevation modelling and 3D rendering for a realistic view



3D Landmark



Topographical view



Modelling terrain in 3D

Comprehensive digital elevation model data is used to draw height and depth features for a realistic landscape at all levels of zoom. While driving, hills and mountains are rendered in 3D to better represent your real world driving environment. 3D landmark data are integrated seamlessly into the graphical rendering in 3D mode, and do not block the view of POIs and other useful information on the map.

## ACCESSORIES

<b>CMK001</b> Vibration free mounting bracket including self-adhesive disc	<b>PBK350</b> PND socket for CMK001 For MAP780, MAP680, MAP370, MAP560, MAP360	<b>PNC350</b> PND socket for CMK001 For MAP780, MAP680, MAP770, MAP670	<b>PCC001</b> Car charger For MAP780, MAP680	<b>BMK001</b> Bicycle mount kit For MAP770, MAP670, MAP370, MAP560, MAP360	<b>GPA001</b> External GPS antenna For MAP780, MAP680, MAP770, MAP670, MAP370, MAP560, MAP360

**ESD671**  
European map data on SD card  
For MAP770, MAP670, MAP370

**ESD561**  
European map data on SD card  
For MAP560, MAP360

**ESD680**  
European map data on SD card  
For MAP680

## MAP COVERAGE & LANGUAGES

### MAP780 with 2GB built-in flash memory and 43 countries map coverage of Western and Eastern Europe.

Albania, Andorra, Austria, Belarus, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Rep., Denmark, Estonia, Finland, France, Monaco, Macedonia, Germany, Greece, Hungary, Ireland, Italy, the Vatican, Latvia, Lithuania, Luxembourg, Moldova, the Netherlands, Norway, Portugal, Poland, Romania, San Marino, Serbia, Montenegro, Slovakia, Slovenia, Spain, Gibraltar, Sweden, Switzerland, Liechtenstein, Turkey, Ukraine, United Kingdom

### MAP680 with 1GB built-in flash memory and regional map coverage

MAP680DEU	MAP680FRA	MAP680UKI	MAP680EEU
Germany, Austria, Liechtenstein, Switzerland	France, Monaco, Belgium, Luxembourg, The Netherlands	United Kingdom, Ireland	(using Tele-Atlas map data and local map provider for a more detailed coverage)

Models with regional map coverage also include the major road network of Western and Eastern Europe.

**Navigation program language (32 languages):** Arabic, Bulgarian, Catalan, Croatian, Czech, Danish (BE / NL), English (UK / US / AU), Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Latvian, Lithuanian, Malay, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkish, Ukrainian,

**Navigation voice guidance (27 languages):** Arabic, Bulgarian, Catalan, Chinese (Mandarin), Croatian, Czech, Danish, Dutch, English (UK / US / AU), Finnish, Flemish, French, German, Greek, Hebrew, Hungarian, Italian, Norwegian,

**Text to speech (11 languages):** Catalan, Dutch, English, French, German, Greek, Italian, Portuguese, Polish, Spanish, Swedish

\*Please note that use of the ready-to-use speed trap warning system may be illegal or prohibited depending on the country. Your mobile navigation unit may be considered as a speed trap warning system if it contains radar mapping data. \*System and setting menus are only available in 18 languages. \*3D Buildings, 3D Landmarks, 3D Modelling, Lane information are not available everywhere.

# MAIN '08 UNITS

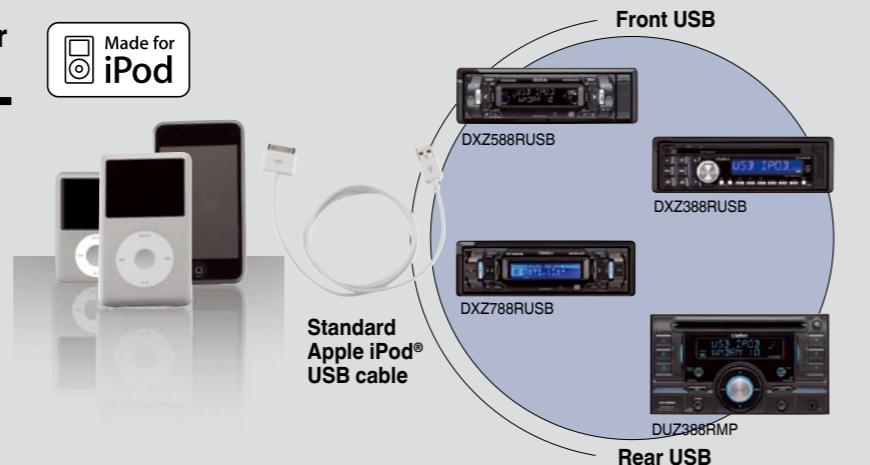
## INSPIRATION AND IMPACT FOR THE NEXT GENERATION IN AUTOMOTIVE LIFESTYLES

Clarion's 2008 source unit lineup is feature packed. Our next generation source units combine cutting edge technology along with ergonomic designs that make the units easy to use. The new source units continue Clarion's pursuit of faithful sound reproduction, while adding many audio playback options. From CD-R/RW, MP3, WMA and AAC playback of CD based compressed audio files, to connectivity options for portable digital music players such as USB, iPod and AUX inputs, Clarion gives you the features and flexibility to enjoy your music the way you want to.

### Direct iPod control: Connectivity for seamless enjoyment of your music

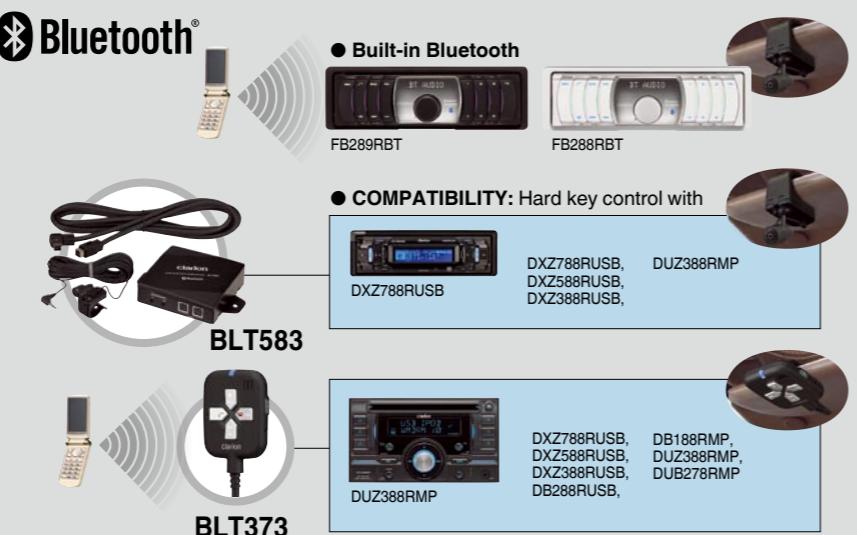
Personal audio players, due to their ever-decreasing size and increasing capacity, are infusing new possibilities into car entertainment. Clarion source units offer direct connectivity with iPod, the preeminent personal audio product. All you have to do is connect the iPod to the Clarion source unit using the USB cable, and all those tunes you carry on iPod can be enjoyed through the car's audio system. (Front USB: DXZ588RUSB/DXZ388RUSB. Rear USB: DXZ788RUSB/DUZ388RMP.)

\* Use the USB cable included with the iPod.  
\* See the Clarion website for iPod models that can be connected.



### Bluetooth® for hands-free communication and wireless music play

This function enables integrated operation with a Bluetooth mobile phone so you can enjoy hands-free communication through your car system. Smooth in-car communication supports a safer driving experience. In addition to the FB289RBT/FB288RBT with built-in Bluetooth, the DXZ788RUSB/DXZ588RUSB/DXZ388RUSB/DB288RUSB/DB188RMP/DUB278RMP/DUZ388RMP also offer Bluetooth when used in conjunction with BLT583/BLT373.



### New source units open new audio possibilities

FB289RBT and FB288RBT are mechanism-free memory audio source units where functionality and design converge at the highest levels. They support SD cards, giving them data compatibility with personal computers and mobile media players. The 2-DIN USB source unit DUB278RMP brings the concept of modern living into your car. And the list continues: the DUZ388RMP with its solid and stately design that perfectly matches your instrument panel, as well as the WXZ468RMP with its built-in 6-disc changer and home audio type design. These units feature large, easy to use controls to keep driver distraction to a minimum.



### Ergonomic designs for simplicity of use

The SLIDETRAK feature found on the DXZ788RUSB and the DXZ588RUSB provides precise control of key features on the source unit with a simple swipe of the fingertip. Large buttons found on the front panel of the DXZ388RUSB/DB288RUSB/DB188RMP/

FB289RBT/FB288RBT are laid out in a logical sequence that makes these units easy to use and cosmetically pleasing. On the 2-DIN DUZ388RMP, the main rotary control is located in the centre of the display for easy access to iPod control and volume adjustments. For 2008, Clarion sourceunit offerings bring together great features and ergonomic designs for greater control and less distraction.



SLIDETRAK Sideways Control

### Front USB slot for easy enjoyment of music files

A USB slot has been integrated into the front panel of the centre unit, enabling easy connection of USB memory and other mobile devices. Just plug in the cable, and music files that you've ripped or downloaded using your computer can now be enjoyed right on your car audio system. (DXZ788RUSB/DXZ588RUSB/DXZ388RUSB/DB288RUSB/DUB278RMP/DUZ388RMP)



### Compatible with WMDRM 10 Digital Content Copyright Management format

WMDRM 10 is a copyright management format used in digital audio and video content such as music and movies. Even files that are legally purchased cannot be played back if the source unit doesn't support this technology.

Clarion's source units are always in step with the latest technological trends to afford maximum usability, and the WMDRM 10 format is no exception. Clarion assures playback and enjoyment of WMDRM 10 format music files downloaded through corresponding online music distributors.



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

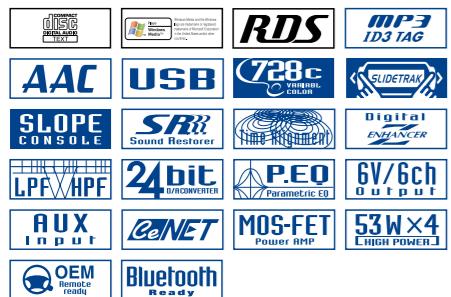
### 6ch RCA output to allow for future system upgrades

6ch/6V RCA output is included with future system expansion in mind. This output enables you to enjoy live performances with more realistic sound. 2ch at the non-fader as well as 2ch at the front and 2ch at the rear let you flexibly make a variety of upgrades to the system to fit your driving lifestyle – (DXZ788RUSB).



# DXZ788RUSB

HIGH-END CD/USB/MP3/WMA/AAC RECEIVER WITH CeNET CONTROL



- CD-R/RW ready
- MP3, WMA and iTunes® AAC compatible with ID3-TAG display
- Rear USB connector with maximum track capacity: 130,560 (255 tracks in 512 folders)
- WMDRM 10 playback via supported MTP device
- 18 FM, 6 MW/LW station presets
- RDS-EON DSP tuner with variable bandwidth and Radio Text display
- iPod® direct control via USB
- 6-volt / 6-channel audio pre-out
- Subwoofer level control
- 24-bit D/A converter
- Sound Restorer
- Digital Z-Enhancer sound customisation
- Digital time alignment control
- 3-way active crossover

- 3-band parametric equaliser
- Built-in High Pass Filter & Low Pass Filter
- Built-in amplifier canceller
- 4-channel × 53 watts of MOS-FET amplification
- Motorised sloping console
- 728-variable colour display and illuminated keys
- Full dot display with Screensavers
- "SLIDETRAK" for dynamic operation
- Mobile input and Phone mute
- Auxiliary input with level control
- CeNET control of Bluetooth® interface adapter BLT583 ready for handsfree and 6-disc CD changer
- OEM steering wheel remote wired interface capability
- Detachable control panel



## Direct USB iPod® Control

You no longer need an expensive adapter box or interface cable to connect your iPod to your Clarion source unit. Simply connect the USB cable included with the iPod to the DXZ788RUSB rear USB input for battery charging and complete control of your iPod.

\* Use the USB cable supplied to connect the iPod.  
\* See the Clarion website for iPod models that can be connected.



## Rear USB connector compatible with WMDRM 10

The rear USB connector is compatible with the Windows Media Digital Rights Management (WMDRM) 10 format for audio, video, and other data. The connector allows you to link to a USB compatible device to play music files in WMDRM 10 format that were purchased and downloaded over the Internet.  
\* See the Clarion website for portable audio players that can be connected.



## Bluetooth® BLT583 (CeNET) ready

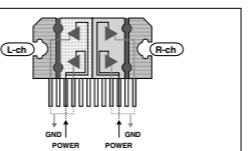
Bluetooth® BLT583 (CeNET) ready with equipment using Clarion's CeNET connection. You can, for example, transfer address book data equivalent to five mobile phone address books to the unit.

## Sound technology



### 6-volt/6-channel output

Equipped with 6V/6ch outputs for reproduction of sources with high sound quality. Together with crossover settings, it can be used to output to various speaker systems like Front 2ch + Rear 2ch + Subwoofer 2ch.



### 212 watts MOS-FET power amplifier

There's only one way for Clarion's DXZ788RUSB to deliver 4-channel × 53 watts of unyielding power output and superior linearity: MOS-FET amplification, or, otherwise known as Metal Oxide Semiconductor Field Effect Transistor amplification. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuitry delivers power with less distortion and zero On/Off switching noise. So turn it up or down for easy listening. MOS-FET amplification — your music has never sounded better.

The DXZ788RUSB focuses on high quality sound in the digital age. It features streaming audio via an optional Bluetooth® receiver (Only BLT373), iPod® direct connection and Digital Media Streaming capability. Digital Time Alignment Control along with a 3-way crossover gives you the ability to precisely balance the speaker positions in the vehicle for the optimum listening experience.



## Digital technology with awesome sound quality



CD loading slot

## 728 variable colours

Colour-tuning the look of your audio system is easy. Clarion also lets you fine-tune the look of your source unit with 728-colour illumination. Choose from 13 different preset colours to let the DXZ788RUSB slowly morph through the entire spectrum or fine tune the Red, Green and Blue levels to match your dash perfectly.



## 2-line Full-Dot LCD and support for MP3/WMA/AAC audio formats

The dot-matrix 2-line display enables you to display a variety of information, and provides a reliable and easy-to-use interface between the user and the source unit, which supports audio compression formats such as MP3, WMA, and AAC.



## SLIDETRAK Control

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

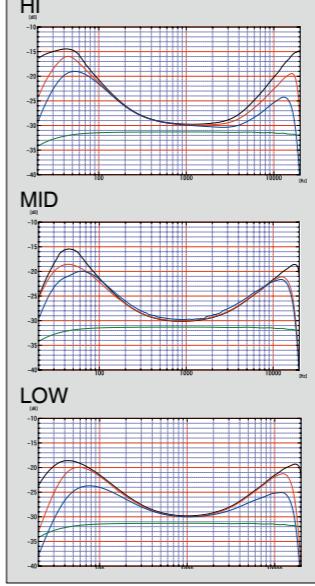
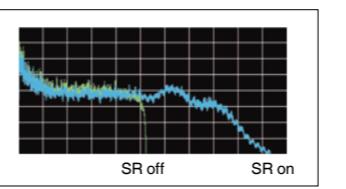
## Digital Time Alignment with 3-way Crossover

To achieve optimum sonic imaging, each speaker should be mounted the same distance from the listening position. Unfortunately, this is almost impossible within the environment of a vehicle. Digital Time Alignment digitally delays the sound from each speaker to effectively align the speakers for perfect imaging. 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 selected music source perfectly.



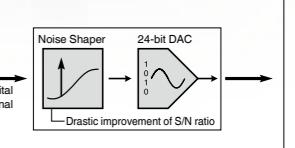
## Sound Restorer

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



## SPEAKER SETTING

- Normal: F2ch + R2ch + SW2ch
- 3-way: HI2ch + MID2ch + SW2ch
- 2-way: HI2ch + MID2ch + R2ch

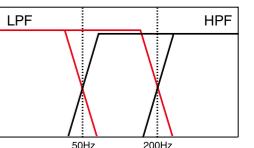


## 24-bit D/A converter

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 24-bit D/A converter recreates the natural nuances and expressions lost during the sound reproduction process.

## Built-in High Pass/Low Pass Crossovers

Built-in High Pass crossovers let your front and rear speakers reproduce the proper frequencies for natural sound and efficient power handling. The DXZ788RUSB also has a Low Pass filter with selectable crossover frequencies of 50, 80 or 120Hz, coupled with a Subwoofer Level Control



to enable full adjustment and control of a connected subwoofer for maximum system performance.

This model is equipped with a USB slot to directly connect your iPod® for control via your car system. In addition, the 6-channel RCA outputs allow future system upgrades. With support of the WMDRM 10 digital rights management format and playback of audio files via a USB link, it realises a car multimedia style for seamless entertainment in your vehicle.

### Next generation source units combine connectivity with superb audio performance.



#### Digital Z-Enhancer

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

#### 2-band Parametric EQ

Dividing the sound spectrum into 2 bands, the parametric EQ allows equalising of the frequency curve for customization of the sound character according to the speakers used and the acoustic properties in the car.

#### Direct USB iPod® control

You no longer need an expensive adapter box or interface cable to connect your iPod to your Clarion source unit. Simply connect the USB cable included with the iPod to the front USB input for battery charging and complete control of your iPod.\*

\* Use the USB cable supplied to connect the iPod.  
\* See the Clarion website for iPod models that can be connected.

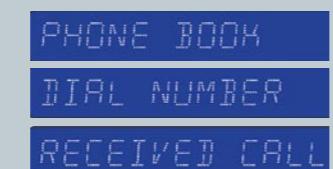


#### Enjoy digital media

Support for multiple audio compression formats, such as MP3, WMA, and AAC, and the digital rights management WMDRM 10 format, iPod linking, and improved connectivity with USB devices – all these make it possible to seamlessly enjoy music with a variety of digital media.



**Bluetooth® BLT583 (CeNET) ready**  
Bluetooth BLT583 (CeNET) ready allows hands-free conversation via a CeNET connection. Enjoy audio streaming and two-way hands-free conversation with a Bluetooth-compatible mobile phone.



## DXZ588RUSB

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

### Support of wide variety of digital era media and compression formats

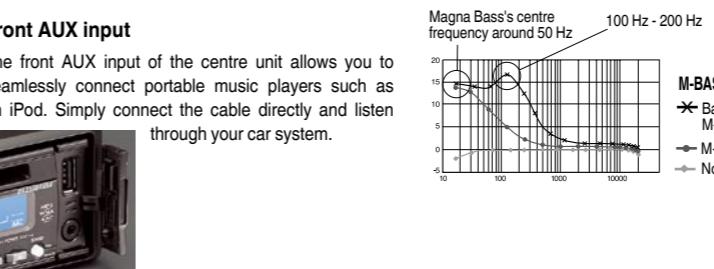
Now, playing that music is a breeze. Clarion has added Apple iTunes AAC file support to our existing MP3 and WMA compressed digital audio compatibility.

### Rotary volume control

Blending ergonomics, styling and functionality, Clarion's pop-out, rotary volume control offers precise control of your audio system. Illuminated during nighttime use, the rotary dial boasts a rubberised grip and a large design so you'll always be in full control.

### Front AUX input

The front AUX input of the centre unit allows you to seamlessly connect portable music players such as an iPod. Simply connect the cable directly and listen through your car system.

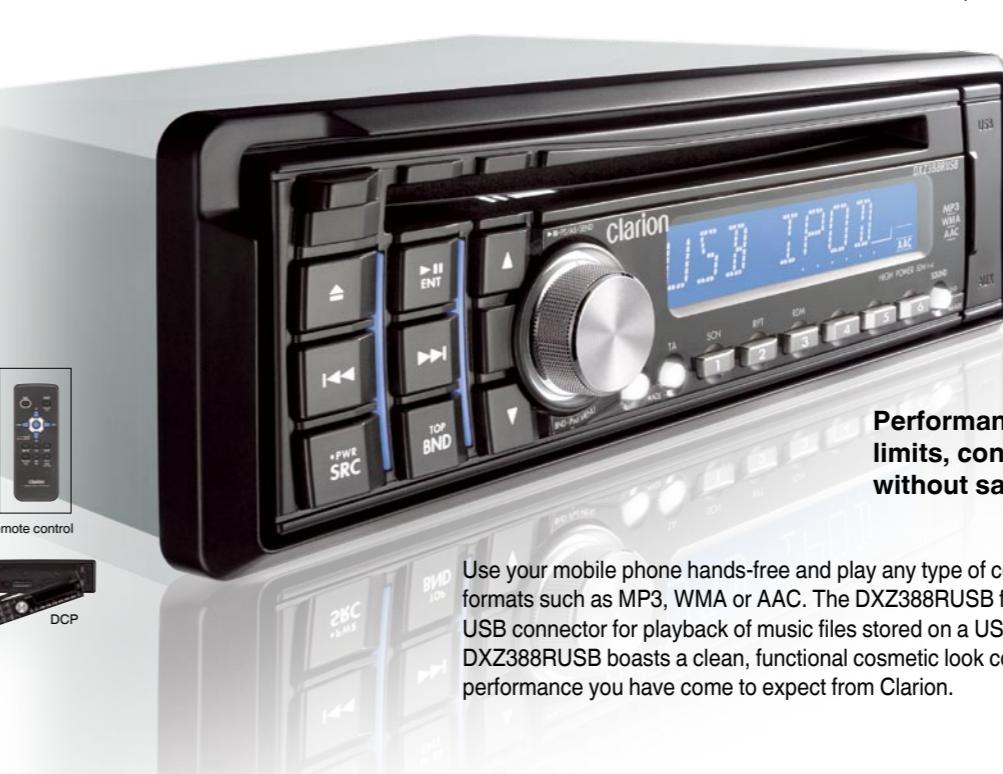


## DXZ388RUSB

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



- CD-R/RW ready • MP3, WMA and iTunes AAC compatible with ID3-TAG display • Front USB slot with maximum track capacity: 130,560 (255 tracks in 512 folders) • WMDRM 10 playback via supported MTP device • 18 FM, 6 MW/LW station presets • iPod direct control via USB • 6ch RCA output • Built-in High Pass Filter & Low Pass Filter (HPF only for speaker line out) • Z-Enhancer Plus sound customisation
- MAGNA BASS EX dynamic bass enhancement
- 4-channel x 50 watts • High visibility single line display with Screensavers • Rotary volume control
- Phone mute • Front-panel auxiliary input with level control • CeNET control of Bluetooth interface adapter BLT583 ready for hands-free and 6-disc CD changer
- OEM steering wheel remote wired interface capability • Detachable control panel



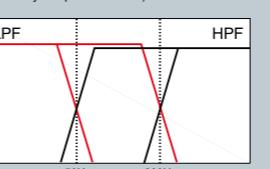
### Performance without limits, connectivity without sacrifice

Use your mobile phone hands-free and play any type of compressed music formats such as MP3, WMA or AAC. The DXZ388RUSB features a front panel USB connector for playback of music files stored on a USB storage device. The DXZ388RUSB boasts a clean, functional cosmetic look coupled with the audio performance you have come to expect from Clarion.

### Playback of WMDRM 10

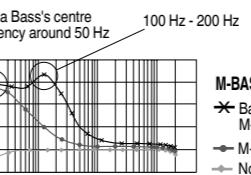
WMDRM 10 files are encoded to prevent unauthorised transfer of protected audio content, such as encoded music files purchased from online music services. To meet these constantly evolving technology trends, the DXZ588RUSB/DXZ388RUSB/DXZ388RUSB can process and play these specially encoded music files.

\* See the Clarion website for portable audio players that can be connected.

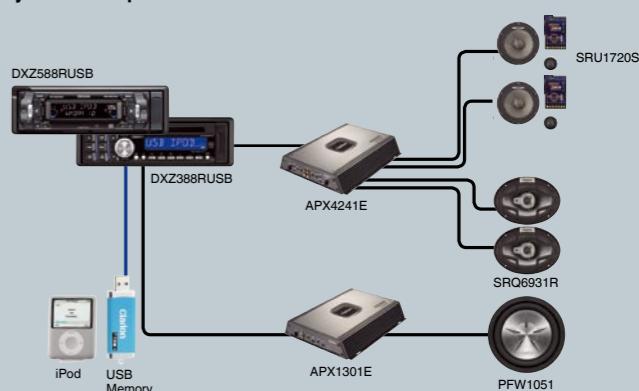


### Sound adjustment (Z-Enhancer Plus + Magna Bass EX)

Clarion's Z-Enhancer Plus lets you select from three performance patterns — Type 1, Type 2 and Type 3. With a touch of the control keys, you can arrange the high-quality sound to better fit the genre of music you are listening to. While most loudness controls boost bass at 60/80/100/200 Hz, the Magna Bass EX circuit boosts bass around 50 Hz. This creates a rich, deep, defined bass rather than the muddy, booming bass of a standard loudness control. The Magna Bass EX boost levels are dependent on the system volume, which results in balanced system response and dynamic bass reproduction.



### System Example



Large illuminated buttons are employed and laid out in an asymmetrical design which provides ease of use and less distraction. A USB slot has been added to the front panel to enhance connectivity with a wide variety of devices. Z-Enhancer Plus also enables you to tailor the sound to your musical taste.



## DB288RUSB

CD/USB/MP3/WMA RECEIVER



### USB slot on the front panel

USB (Universal Serial Bus) is an international interface standard for connection of peripheral devices. It is fully supported via the USB slot on the front. This enables simple plug-in connection of a wide range of devices and USB memory media carrying up to 65,535 songs.

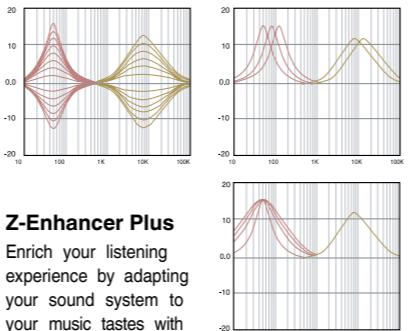
### MP3/WMA playback

Compatible with the MP3 and WMA (Windows Media Audio) compressed audio formats to support long drives.



### 4ch/2V RCA output

With an eye for system expansion, Clarion designed the DB288RUSB with 4ch/2V RCA line level outputs. This unique design assigns one pair of RCA outputs to the front channels, while the other two are assigned as a subwoofer output. The rear channels are delivered through the unit's built-in 50W x 4-channel amplifier. You can fade front line out to the rear-speaker amplifier for overall system balance, while the subwoofer output level can be independently adjusted thanks to the non-fading volume control incorporated in the Rotary Volume Control.



### Z-Enhancer Plus

Enrich your listening experience by adapting your sound system to your music tastes with Clarion's Z-Enhancer Plus. This feature allows you to select from three performance patterns —Type 1, Type 2 and Type 3. The gain and Q (steepness) of each performance pattern can also be adjusted, making it possible to emphasize the power and responsiveness of each band. Simply touch the control keys to arrange the sound inside your car to better suit your favourite music genre.

### Screensaver with message information

You can enter your own greeting up to 30 characters long that will be shown on the display when the unit is switched on and off. Also, the screensaver is displayed if the unit is left idle for a certain amount of time.

### Ready for OEM remote controller

More and more cars are sold with original car radios that can be operated from convenient controls on the steering wheel. Both the DB288RUSB and the DB188RMP feature an interface input that allows connection of the steering wheel controls in your car. This way, you get the best of both worlds: continued use of the handy steering wheel controls and a top-performing Clarion system in your car.



## DB188RMP

CD/MP3/WMA RECEIVER



- CD-R/RW ready • MP3 and WMA compatible with ID3-TAG display • 18 FM, 6 MW/LW station presets • Z-Enhancer Plus sound customisation • MAGNA BASS EX dynamic bass enhancement • 4-channel x 50 watts • High visibility single line display with Screensavers
- Rotary volume control • Phone mute • Mobile input through minijack • Front-panel auxiliary input with level control • 2-channel audio pre-out • AUX Bluetooth transceiver BLT373 ready
- OEM steering wheel remote interface capability • Detachable control panel

Support for audio compression formats such as MP3, WMA and an AUX input on the front of the centre unit enables seamless connectivity such as an iPod or portable music player. The large illuminated buttons and rotary volume knob improves system operation.

### Sophisticated design employing brilliantly illuminated buttons



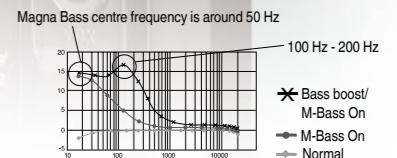
### Rotary volume control

Clarion's electronic rotary volume control is ergonomically designed for ease of use. Rather than utilising a resistor-type potentiometer volume control, which can cause unwanted noise, Clarion's electronic potentiometer volume control provides precise control and clarity.



### Front panel auxiliary input

Both the DB288RUSB and the DB188RMP feature a front panel auxiliary input. Plug in your portable music player and enjoy music the way it was meant to be heard.



### Magna Bass EX

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

### 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.

### ACCESSORIES

CABLES	FM MODULATOR	CD MAGAZINE	REMOTE CONTROLS
CCA389 AV ADAPTER CABLE, 2.5 M 8-PIN ↔ RCA (1 VIDEO / 2 AUDIO) For VRX848RV / VRX743R A/V input	CCA519 MULTILINK Y-CABLE For CeNET changers	CCA521 CeNET EXTENSION CABLE, 0.6 M	CAA397 6-DISC MAGAZINE For DCZ628, DC628 and VCZ628
	CCA520 CeNET EXTENSION CABLE, 2.5 M	FM863 8-channel FM modulator	RBC147 INFRARED JOYSTICK, REMOTE CONTROL
			RCB176 INFRARED AV REMOTE CONTROL For MAX973HD & MAX983HD



# IMMERSE YOUR SENSES IN SOUND

From the solid look and feel of the edge-lit control panel to the simplicity of the central volume control – the FB288RBT/FB289RBT breaks all previous source unit stereotypes. Clarion's advanced H.M.I. design launches a new era in mobile source units with FB288RBT/FB289RBT and DUB278RMP.



**Advanced functions such as hands-free calling and enhanced media links are combined.**

With a built in Bluetooth® receiver, this unit allows you to enjoy hands-free calling with your Bluetooth® enabled mobile phone. Furthermore, a built-in SD slot makes playing music from external sources easy, while utilising an ID3-TAG display allows simple manipulation of compressed (MP3) music files. In addition, the 728-variable colour illuminated keys complete the brilliant user interface.

## Intuitive design

FB289RBT/FB288RBT are like no other source units with the intuitive H.M.I. design that minimises the number of buttons required for maximised functionality. Each button is large and easy to use, at the same time integrated in the overall cosmetic design.

## Connectivity

Today's car audio enthusiast demands digital music connectivity, and Clarion facilitates this by delivering options for these state-of-the-art requirements. With that in mind, Clarion has added state-of-the-art connectivity in this new non-mechanical unit, such as an SD card slot for on the go PC users, and built-in Bluetooth® connection for mobile music devices such as MP3 players and mobile phones. Let Clarion open your world to new entertainment options for your digital lifestyle.



## Cutting edge style

Indirect lighting on the FB289RBT/FB288RBT makes each of the arched buttons appear to float on the face of the unit, adding to the mystique of the Metal Shark design. A mirror finish surrounds the bottom half of the illuminated rotary volume control adding to the stunning good looks of this feature packed product.

Clarion continues to push design and functionality with the FB289RBT and FB288RBT. With PC compatibility via the SD card slot, and a built-in Bluetooth receiver for wirelessly streaming digital audio, the FB289RBT/FB288RBT connects you like never before.

**When style and technology merge, the end result is innovation.**



**FB289RBT**  
BLUETOOTH SD/MP3 RECEIVER



DCP

**FB288RBT**  
BLUETOOTH SD/MP3 RECEIVER



DCP

- MP3 compatible with ID3-TAG display via SD slot
- Built-in Bluetooth wireless technology for hands-free / audio streaming and remote control
- 18 FM station presets
- RDS-EON tuner
- 4-channel x 50 watts of amplification
- Flip-down control panel
- 728-variable colour illuminated face panel
- Auxiliary input
- 2-channel audio pre-out
- External microphone included

## The next-generation source unit

- Built-in Bluetooth audio streaming (A2DP & AVRCP)
- Built-in Bluetooth Hands-free (HFP)
- MP3 playback via SD card slot



## Built-in Bluetooth® interface

Clarion is an industry leader in connectivity options for the mobile entertainment environment. Clarion now offers products such as the FB289RBT/ FB288RBT mechanism-less source units with built-in Bluetooth connectivity. This technology allows you to connect with today's most common devices, such as mobile phones, PDAs and MP3 Players via the unit's built-in wireless Bluetooth connection. Providing access to most popular Bluetooth profiles including A2DP, AVRCP and HFP, the FB289RBT/ FB288RBT will transfer your favourite digital music or mobile phone audio to your vehicle's audio system.



## Connection and playback with no mechanical parts.

The next evolution in mobile audio is no moving parts. The FB289RBT/FB288RBT features an SD slot hiding behind the folding control panel. Simply copy your favourite music from your PC to an SD card, and you are ready to enjoy hours of music. You can also connect via Bluetooth enabled devices such as mobile telephones, PDAs and portable music players (with built-in Bluetooth hands free interface) for increased music options. The revolution is here and the name is Clarion.

## 728-variable colour illuminated design



## Auxiliary input

The FB289RBT/FB288RBT includes an auxiliary RCA input which makes hooking up any wired audio source a snap. Full stereo sound is just a quick connection away.

# DUZ388RMP

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



- CD-R/RW ready • MP3, WMA and iTunes® AAC compatible with ID3-TAG display • Rear USB connector • WMDRM 10 playback via supported MTP device • 18 FM, 6 MW/LW station presets
- iPod® control via USB • Z-Enhancer Plus sound customisation • MAGNA BASS EX dynamic bass enhancement • 4-channel x 50 watts
- 728-variable colour display and illuminated keys
- High visibility 2-line display with Screensavers
- Rotary volume control • Phone mute • CeNET control of Bluetooth interface adaptor ready for hands-free calls and 6 disc CD Changer • Front AUX input • 4-channel audio pre-out • OEM steering wheel remote wired interface capability

The easy-to-operate central volume knob and large buttons portray an impressive solid design that blends into your instrument panel. You can play back music on CDs as well as tunes in any audio compression format, such as MP3, WMA and AAC, while the USB connector can be used for direct connection of your iPod or any other digital mass storage memory. What's more, this model lets you use your mobile phone in hands-free mode, making your driving experience even more seamless and exciting.

### USB equipped model enables a variety of digital collaboration



### Rear USB connector compatible with WMDRM 10

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



### Bluetooth BLT583 (CeNET) ready

Bluetooth BLT583 (CeNET) ready with equipment using Clarion's CeNET connection. You can, for example, transfer address book data to the unit.



### 2V / 4ch RCA line out (Front 2ch + Rear 2ch)

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

### AAC playback

AAC is an abbreviation for Advanced Audio Coding, a next-generation compression format used by Apple. It boasts a high compression ratio 1.4 times that of MP3, while achieving very sound quality.

### Z-Enhancer Plus (2-band P.EQ)

Z-Enhancer Plus enables you to select your ideal equalising pattern at will from the three types, B-BOOST, IMPACT, and EXCITE, according to the music genre or taste. Also, a 2-band parametric equaliser lets you flexibly set the gain, Q (steepness), and frequency of each of the equalising patterns to perform fine tuning of acoustic characteristics such as the adjustment of the power and responsiveness of each of the low, mid and high ranges. With this sound quality control function, the interior of your car will turn into a high-fidelity listening environment.



### Direct USB iPod® control

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

\* To connect iPod, please use the USB cable attached to iPod. \* Please see the Clarion website for iPod models that can be connected.

### Rotary volume control and large buttons



### 728-variable colour illumination



### Front AUX input via 3.5mm mini jack connector with level adjustment

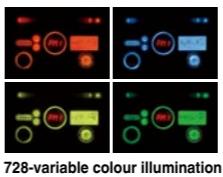


The DUB278RMP's AUX input and USB port on the front panel improves connectivity with your mobile gear. The USB slot allows non-stop playback of up to 15,000 songs. The metallic finished WXZ468RMP, an in-dash 6-disc changer, livens up your journey. With a music style for the digital age and a superior feeling that is a cut above the rest, these two new unique models will provide you with a new driving sensation.



# DUB278RMP

**2-DIN CD/USB/MP3/WMA RECEIVER**



- CD-R/RW ready • MP3 and WMA compatible with ID3-TAG display • Front USB slot (supports max. 255 folders and max. 15,000 files in the folders) • 18 FM, 6 MW/LW station presets • RDS-EON tuner • Z-Enhancer sound customisation • MAGNA BASS EX dynamic bass enhancement • 4-channel x 50 watts of MOS-FET amplification • High visibility single line display with Screensavers • 728-variable colour display and illuminated keys • Front-panel audio input with level control • 4-channel audio pre-out • OEM steering wheel remote wired interface capability



### USB input for compressed digital audio

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



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

MOS-FET amplification is the only way for Clarion's DUB278RMP to deliver 4-channel x 50 Watts of unyielding power output and superior linearity. Smaller and more efficient than conventional power supplies, this MOS-FET amplification circuit delivers power with less distortion and no switching noise. So crank it up or turn it down; the choice is yours.

### Magna Bass EX for dynamic bass enhancement

Conventional loudness circuits boost bass frequencies around 100Hz, resulting in a muddy over-boosted sound which is unnatural. Magna-Bass EX focuses the bass boost at 50 Hz, adding warmth and richness to the sound. This 50Hz boost effectively extends the frequency response of smaller speakers, making your system sound larger and more capable. The result is dynamic bass performance that sounds real.



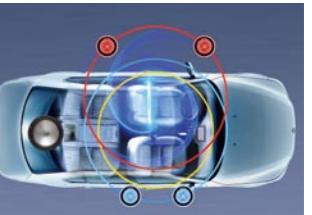
# WXZ468RMP

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



### 23-band spectrum analyser with 9-band graphic equaliser

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



### LPO (Listening Position Optimiser)

The WXZ468RMP's Listening Position Optimiser uses digital processing to virtually adjust the speaker distance, enabling sound stage settings that accommodate a wide variety of different vehicles. No matter what type of car you drive, you can count on Clarion to drive your sound with high precision and realistic presence.

Setting	Seat position		
	LPO 1 for compact car	LPO 2 for sedan	LPO 3 for estate car
Right	Distance 10 cm Sample 52	Distance 40 cm Sample 13	Distance 10 cm Sample 104
Left	Distance 10 cm Sample 104	Distance 40 cm Sample 52	Distance 10 cm Sample 208
	10 cm	40 cm	10 cm
	80 cm	10 cm	16 cm
	10 cm	80 cm	10 cm
	10 cm	10 cm	208 cm

For more detailed information concerning installation possibilities, please refer to the CIP (Clarion Installer Programme) on page 32-33



The CIP — Clarion Installer Programme offers the most professional fitting accessories to connect your Clarion device simply and safely to more than 200 different car models.

[www.clarion.com/cip](http://www.clarion.com/cip)

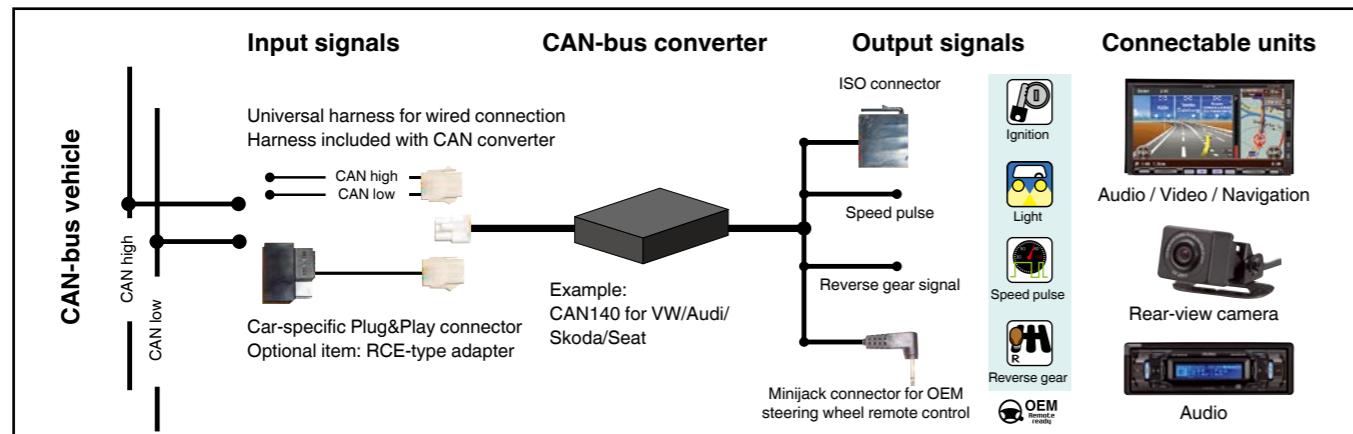
Please visit [www.clarion.com/cip](http://www.clarion.com/cip) to see the latest range of professional Clarion installation accessories online.

## CAN-bus converter

New cars increasingly rely on proprietary data bus techniques that are not compatible with commercial audio products. Clarion's development division specialises in finding solutions to adapt such digital communications system with our line of products. Our CAN converter interfaces can customise CAN-bus equipped cars with a superior Clarion audio system.



### System example



Upgrade your CAN-equipped car with the latest navigation technologies from Clarion by installing a compatible CAN-converter to handle all the required signals or simply to enable enhanced use of Clarion multimedia products with the convenient steering wheel controls in your car.

To see which cars are supported for converting digital CAN data into analogue signals, please refer to our website at [www.clarion.com/cip](http://www.clarion.com/cip).

## 2-DIN installation bracket

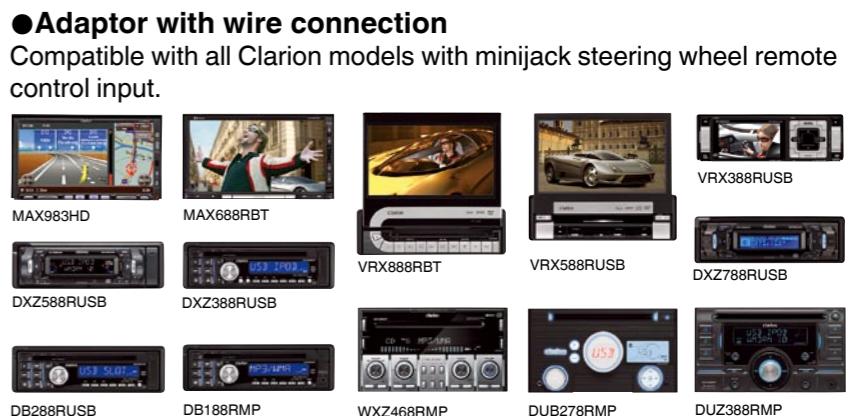
More than 60% of all new vehicles sold in Europe offer a larger installation space for car entertainment products in the dashboard than the standard 1-DIN size. The use of 2-DIN units gives the customer the advantage of more advanced features and added functionality in a single source unit. In order to offer professional fitting and seamless integration of Clarion components in a 2-DIN spaced slot, Clarion has developed a wide range of car-specific mounting brackets. To help the installer, all brackets are supplied with detailed mounting instructions and diagrams for each car. All fixing materials are included with each bracket.



To see which car models are ready for a 2-DIN Clarion main unit, please refer to our website at [www.clarion.com/cip](http://www.clarion.com/cip)

## OEM steering wheel remote control

More and more cars are sold with original car radios that can be operated from convenient controls on the steering wheel. Clarion has introduced a series of interfaces that allow connection of Clarion products to the steering wheel controls in your car. This way, you get the best of both worlds: continued use of the handy steering wheel controls and a top-performing Clarion system in your car.



To see which car models can control a Clarion main unit from the steering wheel, please refer to our website at [www.clarion.com/cip](http://www.clarion.com/cip)



# 08 AMPLIFIERS SUBWOOFERS SPEAKERS

AMPLIFIERS



## FASTER, STRONGER, SMALLER

Clarion amplifiers represent overwhelming power packed into a compact body, providing consolidation of technology to control your music. Count on everything from first class performance, to luxurious design, multiple speaker driving flexibility, and a wide range of installation possibilities to deliver a powerful acoustic space and provide pure sound quality.



## STELLAR BASS PERFORMANCE

Clarion offers subwoofers for those who require great bass and won't settle for second best. Features such as a durable die-cast aluminium frame with powerful damping and dual Strontium Ferrite magnet motor assembly, provide an unprecedented sense of bass. Real world tested Spider Exhaust Technology provides advanced thermal cooling to ensure extended woofer life, and helps maintain peak performance at all times. With shallow mount and powered subwoofer models too, you can enjoy unparalleled installation flexibility.



## SUPERB SOUND CONSTRUCTION

New for 2008, Clarion's high-end two-way speaker line-up features a rigid die-cast aluminium frame and TP-GF woofer cones which provide ideal sound transmission, as well as Rear-Vented Pole Piece for superb power handling and better heat dissipation at higher wattages. Other models feature TM-MIPP woofer cones and silk dome tweeters for superb response. Just imagine the system you need, and be assured that Clarion offers the sound solution to match it.



SUBWOOFERS

SPEAKERS

EXPERIENCE THE MUSIC,  
LIVE IN THE SOUND

Clarion's 2008 line of amplifiers, subwoofers, and speakers delivers an option for every audio enthusiast at every level, whether you are a first-timer or an advanced acoustic aficionado.

## APA Series

Class AB Amplifiers



### APA4360

**720 W 4/3/2-CHANNEL HIGH SOUND QUALITY AMPLIFIER**

**4/3/2 ch Power AMP MOS-FET Bass Extender LPF/MPP MAX 720W**

- 4/3/2 channels bridgeable mode operation • Maximum power output: 720 W (4 x 180 W into 4 ohms) • Continuous average power output: 360 W (4 x 90 W into 4 ohms, 20 Hz ~ 20 kHz @ ≤ 0.05 % THD) • Typical bridged power output: 2 x 260 W into 4 ohms, 20 Hz ~ 20 kHz @ ≤ 0.2 % THD • Typical 2-ohm stereo power output: 4 x 130 W into 2 ohms, 20 Hz ~ 20 kHz @ ≤ 0.2 % THD • Bass Extender: 0 ~ +15 dB @ 45 Hz • Independent front/rear adjustable crossover frequencies (HP/LP): 55 ~ 550 Hz or 550 ~ 5,500 Hz • Adjustable line level input: 200 mV up to 6 V
- Speaker level input • Soft mute On/Off circuitry • Gold plated isolated massive speaker and power supply connectors



### APA2180

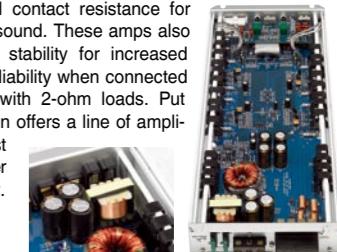
**360 W 2/1-CHANNEL HIGH SOUND QUALITY AMPLIFIER**

**2/1 ch Power AMP MOS-FET Bass Extender LPF/MPP MAX 360W**

- 2/1 channels bridgeable mode operation • Maximum power output: 360 W (2 x 180 W into 4 ohms) • Continuous average power output: 180 W (2 x 90 W into 4 ohms, 20 Hz ~ 20 kHz @ ≤ 0.05 % THD) • Typical bridged power output: 1 x 260 W into 4 ohms, 20 Hz ~ 20 kHz @ ≤ 0.2 % THD • Typical 2-ohm stereo power output: 2 x 130 W into 2 ohms, 20 Hz ~ 20 kHz @ ≤ 0.2 % THD • Bass Extender: 0 ~ +15 dB @ 45 Hz • Adjustable crossover frequency (HP/LP): 55 ~ 550 Hz or 550 ~ 5,500 Hz
- Adjustable line level input: 200 mV up to 6 V • Speaker level input • Soft mute On/Off circuitry • Gold plated isolated massive speaker and power supply connectors

## Circuit design achieves high quality sound

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



## Space-saving design with high heat dissipation

APA Series amps feature a die-cast design with countless heat sinks for high-heat dissipation. This eliminates the need for an internal fan. Also preventing overheating is the amplifier's circuit design that inhibits heat dispersal. This heat dispersal effect is maximised during consecutive drives for high power in minimal space.

## Gapped E core choke coils

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

## 2-ohm stability

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

## APX Series

Class AB Amplifiers



### APX1301E

**420 W MONO POWER AMPLIFIER**

**1 ch. Power AMP LFE MOS-FET MAX 420W**

- 420 w of maximum music power • 400 w RMS × 1 into 2 ohms, 20 Hz ~ 20 kHz @ <0.1 % THD • 300 w RMS × 1 into 4 ohms, 20 Hz ~ 20 kHz @ <0.1 % THD • Selectable bass Boost: 0/6/12 dB @ 50 Hz • Power MOS-FET switching transistor • Adjustable Low Pass Crossover @ 30 ~ 300 Hz
- Gold-plated Connectors: Cinch/Speaker/Power
- Speaker level input



### APX4241E

**400 W 4/3/2-CHANNEL POWER AMPLIFIER**

**4/3/2 ch Power AMP LFE MOS-FET MAX 400W**

- 400 w of maximum music power • 80 w RMS × 4 into 2 ohms, 20 Hz ~ 20 kHz @ <0.1 % THD • 60 w RMS × 4 into 4 ohms, 20 Hz ~ 20 kHz @ <0.1 % THD • Selectable bass Boost: 0/6/12 dB @ 50 Hz • Power MOS-FET switching transistor • Adjustable Low Pass Crossover @ 30 ~ 300 Hz
- Gold-plated Connectors: Cinch/Speaker/Power
- Speaker level input



### APX2121E

**200 W 2/1-CHANNEL POWER AMPLIFIER**

**2/1 ch Power AMP LFE MOS-FET MAX 200W**

- 200 w of maximum music power • 80 w RMS × 2 into 2 ohms, 20 Hz ~ 20 kHz @ <0.1 % THD • 60 w RMS × 2 into 4 ohms, 20 Hz ~ 20 kHz @ <0.1 % THD • Selectable bass Boost: 0/6/12 dB @ 50 Hz • Power MOS-FET switching transistor • Adjustable Low Pass Crossover @ 30 ~ 300 Hz
- Gold-plated Connectors: Cinch/Speaker/Power
- Speaker level input

	Number of channels	Maximum power output	MOS-FET power supply	4-ohm	2-ohm	Bridged	2-ohm stable	2-ohm mono stable	Variable bass boost control	Gold-plated connections	Speaker level input	Dimensions (LxWxH)
<b>APA4360</b>	4/3/2	720 w	●	4 x 90 w	4 x 130 w	2 x 260 w	●	●	●	●	●	407 x 165 x 56 mm
<b>APA2180</b>	2/1	360 w	●	2 x 90 w	1 x 260 w	●	●	●	●	●	●	285 x 165 x 56 mm
<b>APX4241E</b>	4/3/2	400 w	●	4 x 60 w	4 x 80 w	2 x 100 w	●	●	●	●	●	300 x 280 x 55 mm
<b>APX2121E</b>	2/1	200 w	●	2 x 60 w	2 x 80 w	1 x 100 w	●	●	●	●	●	180 x 280 x 55 mm
<b>APX1301E</b>	1	420 w	●	1 x 300 w	1 x 400 w	●	●	●	●	●	●	300 x 280 x 55 mm



## ULTRA SERIES

### Experience the epitome of sound

The Ultra Series has been designed with only one thing in mind: Superb sound. Incredible power handling capability is coupled with superior response and stately looks, made possible using the highest grade materials, to bring you sound that is so clear and realistic. You'll just want to keep on driving.



#### SRU310H

2.5 CM (1") SILK DOME TWEETER

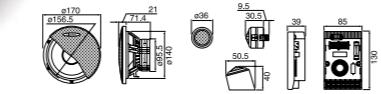
**BOHZ** NeoMag



#### SRU1720S

16.5 CM (6-1/2")  
2-WAY COMPONENT SYSTEM

**TP-GF** Cone  
**BOHZ** NeoMag  
**SR** POWERFUL



### SPEAKER TECHNOLOGY

#### TP-GF woofer cone (ULTRA SERIES)

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.

#### Powerful strontium magnet for dynamic bass

Strontium magnets have a magnetic flux density that is far higher than conventional ferrite magnets, enabling reproduction of dynamic bass sounds from a relatively small voice coil.

#### Aluminium die-cast frame (ULTRA SERIES)

The speaker uses an aluminium die-cast frame for added stiffness, thereby minimising unwanted resonance and vibration.

#### Rear-vented pole piece (2-WAY COMPONENT SYSTEM)

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, resulting in completely smooth cone movement, which contributes to the open, airy sound of the speakers.

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

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

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

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

#### Multiaxial 3-way system (QUALITY SERIES)

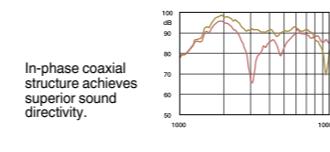
By unitising the woofer, midrange and tweeter into a 3-way multiaxial design, the speaker is able to offer extremely wide frequency response from low 28 Hz bass sounds up to super-extended register of 35 kHz for crystalline highs.

#### In-Phase coaxial design (IN-PHASE SERIES)

A key component to experiencing natural sound imaging and staging is Clarion's IN-PHASE Series speaker design. The tweeter's "In- Phase" placement minimises the phase differential between the woofer and tweeter, and prevents time lag between high and low frequency sounds from being audible to the listener.



In-phase coaxial structure achieves superior sound directivity.



## PLATINUM SERIES

### Flexible solutions for your sound environment

The Platinum Series of separate woofers and tweeters will let you choose just the right solution for your car audio upgrading needs. Built to perform, and designed to install in just about any vehicle, when the tweeter level output has been adjusted for just the right sound, these speakers are simply waiting to make a decisive difference.



#### SRP1720S

16.5 CM (6-1/2")  
2-WAY COMPONENT SYSTEM

**Glass Fibre Cone**  
**50kHz**  
**NeoMag**  
**SR** POWERFUL  
**Input MAX 350W**

#### SRP1320S

13 CM (5-1/4")  
2-WAY COMPONENT SYSTEM

**Glass Fibre Cone**  
**50kHz**  
**NeoMag**  
**SR** POWERFUL  
**Input MAX 300W**

## IN-PHASE SERIES



#### SRX6985

15 CM x 23 CM (6" x 9") IN-PHASE COAXIAL 2-WAY

**Glass Fibre Cone**  
**80kHz**  
**NeoMag**  
**In-Phase Coaxial**  
**SR** POWERFUL  
**Input MAX 350W**



#### SRX1785

16.5 CM (6-1/2") IN-PHASE COAXIAL 2-WAY

**Glass Fibre Cone**  
**120kHz**  
**NeoMag**  
**In-Phase Coaxial**  
**SR** POWERFUL  
**Input MAX 250W**

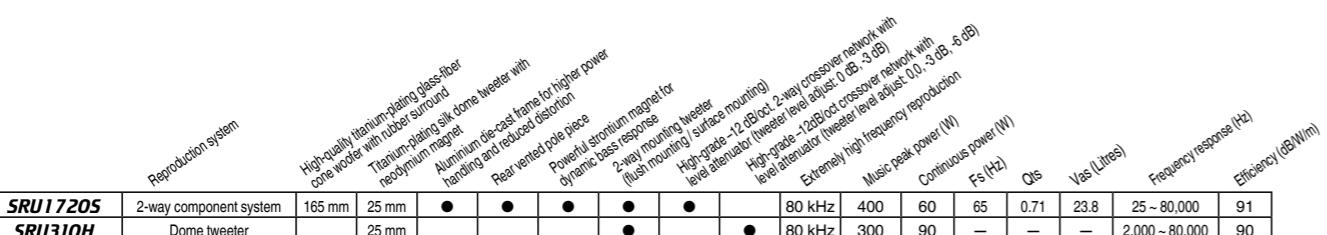


#### SRX1385

13 CM (5-1/4") IN-PHASE COAXIAL 2-WAY

**Glass Fibre Cone**  
**120kHz**  
**NeoMag**  
**In-Phase Coaxial**  
**SR** POWERFUL  
**Input MAX 200W**

	Reproduction system	Fs (Hz)	Qts	Vas (Lites)	Frequency response (Hz)	Efficiency (dB/W/m)
<b>SRU1720S</b>	2-way component system	165 mm	25 mm	● ● ● ●	80 kHz 400 60 65 0.71 23.8 25 - 80.000	91
<b>SRU310H</b>	Dome tweeter		25 mm	● ● ● ●	80 kHz 300 90 — —	2,000 - 80.000 90
<b>SRP1720S</b>	2-way Component System	165 mm	25 mm	● ●		50 kHz 350 55 65 0.43 17.7 25 - 50.000 91
<b>SRP1320S</b>	2-way Component System	130 mm	25 mm	● ●		50 kHz 300 50 75 0.97 4.8 40 - 50.000 90
<b>SRX6985</b>	In-Phase coaxial 2-way	150 x 230 mm	25 mm	● ●		80 kHz 350 50 45 0.59 29.6 25 - 80.000 92
<b>SRX1785</b>	In-Phase coaxial 2-way	165 mm	20 mm	● ●		120 kHz 250 45 75 0.93 4.2 28 - 120.000 91
<b>SRX1385</b>	In-Phase coaxial 2-way	130 mm	20 mm	● ●		120 kHz 200 40 90 0.86 3.3 35 - 120.000 90



## QUALITY SERIES — 2-way

**SRQ1720S**

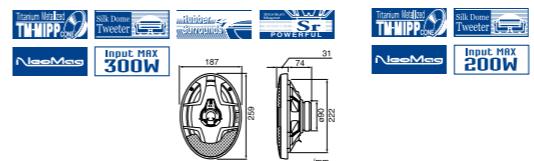
16.5 CM (6-1/2") 2-WAY COMPONENT SYSTEM

**SRQ1320S**

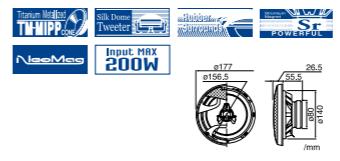
13 CM (5-1/4") 2-WAY COMPONENT SYSTEM

**SRQ6920R**

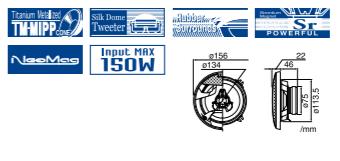
15 CM x 23 CM (6" x 9") COAXIAL 2-WAY

**SRQ1720R**

16.5 CM (6-1/2") COAXIAL 2-WAY

**SRQ1320R**

13 CM (5-1/4") COAXIAL 2-WAY

**SRQ1020R**

10 CM (4") COAXIAL 2-WAY



## QUALITY SERIES — 3-way

**SRQ2030R**

20 CM (8") MULTIAXIAL 3-WAY

**SRQ6931R**

15 CM x 23 CM (6" x 9") MULTIAXIAL 3-WAY

**SRQ1730R**

16.5 CM (6-1/2") MULTIAXIAL 3-WAY

**SRQ1330R**

13 CM (5-1/4") MULTIAXIAL 3-WAY

**SRQ210H**

2 CM (3/4") DOME TWEETER



## CUSTOM-FIT SERIES

**SRC1715**

16.5 CM (6-1/2") CUSTOM-FIT COAXIAL 2-WAY

**SRC1315**

13 CM (5-1/4") CUSTOM-FIT COAXIAL 2-WAY

**SRC1016**

10 CM (4") CUSTOM-FIT COAXIAL 2-WAY

**SRC1015**

10 CM (4") CUSTOM-FIT COAXIAL 2-WAY

**SRC5715**

13 CM x 18 CM (5" x 7") CUSTOM-FIT COAXIAL 2-WAY

**SRC4616**

10 CM x 15 CM (4" x 6") CUSTOM-FIT COAXIAL 2-WAY



	Reproduction system	TM-MIPP cone woofer	Pure silk dome tweeter with neodymium magnet	Pure silk dome mid-range	Pure silk dome tweeter (variable angle flush)	2-Way mounting tweeter (surface mounting)	Custom-fit tweeter bracket included (for Renault, Peugeot, Citroen)	Powerful strontium magnet for dynamic bass response	In-line 3 dB/oct. crossover network	Variable angle tweeter replacement	Music peak power (W)	Continuous power (W)	Fs (Hz)	Qts	Vas (Litres)	Frequency response (Hz)	Efficiency (db/W/m)
<b>SRQ1720S</b>	2-way Component System	165 mm	20 mm		●	●	●	●	●	●	300	45	75	0.66	8.7	28-35,000	92
<b>SRQ1320S</b>	2-way Component System	130 mm	20 mm		●	●	●	●	●	●	200	45	85	0.66	7.3	40-35,000	91
<b>SRQ6920R</b>	Coaxial 2-way	150 x 230 mm			25 mm		●				300	50	65	0.89	23.5	28-32,000	92
<b>SRQ1720R</b>	Coaxial 2-way	165 mm			20 mm		●				200	40	70	1.11	12.3	28-32,000	91
<b>SRQ1320R</b>	Coaxial 2-way	130 mm			20 mm		●				150	30	80	0.79	5.2	40-32,000	91
<b>SRQ1020R</b>	Coaxial 2-way	100 mm			20 mm		●				140	30	120	0.73	1.9	45-32,000	90
<b>SRQ2030R</b>	Multiaxial 3-way	200 mm		25 mm	8 mm	●					400	60	65	0.80	22.3	25-35,000	92
<b>SRQ6931R</b>	Multiaxial 3-way	150 x 230 mm		25 mm	8 mm	●					350	55	65	0.89	23.5	28-35,000	92
<b>SRQ1730R</b>	Multiaxial 3-way	165 mm		20 mm	8 mm	●					250	45	75	1.11	10.8	28-35,000	91
<b>SRQ1330R</b>	Multiaxial 3-way	130 mm		20 mm	8 mm	●					200	35	80	0.79	5.2	40-35,000	91
<b>SRQ210H</b>	Dome Tweeter		20 mm			●					200	45	-	-	-	2,500-35,000	90

	Reproduction system	TM-MIPP cone woofer	Metalised PEI balanced-drive tweeter	Powderful strontium magnet for dynamic bass response	Designed for direct OEM replacement	Sound tuning for european cars	Music peak power (W)	Continuous power (W)	Fs (Hz)	Qts	Vas (Litres)	Frequency response (Hz)	Efficiency (db/W/m)
<b>SRC1715</b>	Custom-fit coaxial 2-way	165 mm	25 mm	●	●	●	140	30	70	1.40	12.3	30-30,000	91
<b>SRC1315</b>	Custom-fit coaxial 2-way	130 mm	25 mm	●	●	●	120	30	90	1.11	3.7	40-30,000	90
<b>SRC1016</b>	Custom-fit coaxial 2-way	100 mm	25 mm	●	●	●	100	25	115	1.00	1.4	45-30,000	90
<b>SRC5715</b>	Custom-fit coaxial 2-way	130 x 180 mm	25 mm	●	●	●	100	25	115	1.00	1.4	45-30,000	90
<b>SRC4616</b>	Custom-fit coaxial 2-way	100 x 150 mm	25 mm	●	●	●	100	25	125	1.56	1.9	45-30,000	90



# Made for safer driving REAR-VIEW CAMERAS & MONITOR SYSTEMS

Clarion makes your drive more enjoyable, and safer. Choose from the full selection of CCD cameras and monitor units to meet your specific needs. Take the guesswork out of reversing into tight spaces. Drive and park with confidence instead.

## CJ981E 6.5inch Monitor

### 6.5" WIDE COLOUR LCD MONITOR

- Zoom/iris/Distance markers • AUX video input (NTSC / PAL) • Auto / Manual dimmer • Optional power box is required (EA1246A or EA1232A) • Up to three cameras can be connected with EA1246A.



## CJ7000E 7inch Monitor

### 7" WIDE COLOUR LCD MONITOR

- Composite video input & audio input
- Direct inputs for two cameras to the built-in power box • True/Mirror image switching • Manual dimmer • Wireless remote controller included • Built-in speaker



## CJ5600E 5.6inch Monitor

### 5.6" COLOUR LCD MONITOR

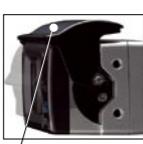
- Two camera direct input (no power box required) • Two signal connection for indicator lights or reverse gear • True/Mirror image switching • Manual dimmer



Zoom/Iris/Distance markers are not available in CJ7000E/CJ5600E.

## HEAVY-DUTY CAMERAS

Designed for industrial operation



**CC2001E**  
HEAVY-DUTY COLOUR CCD CAMERA WITH SHUTTER (MIRROR IMAGE)



**CC2000E**  
HEAVY-DUTY COLOUR CCD CAMERA (MIRROR IMAGE)



**CC2002E**  
HEAVY-DUTY COLOUR CCD CAMERA (NARROW ANGLE / MIRROR IMAGE)



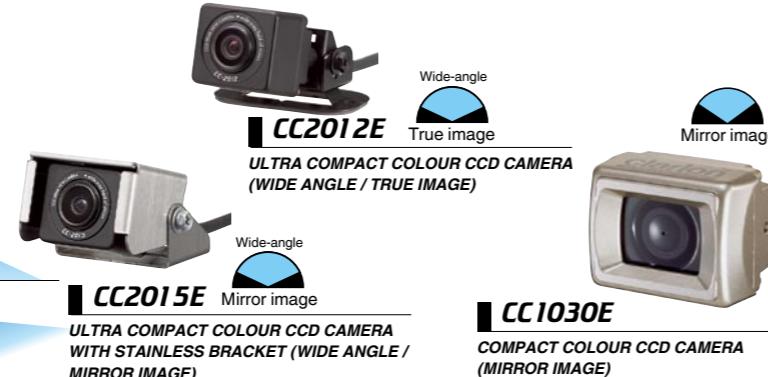
**CC2003E**  
HEAVY-DUTY COLOUR CCD CAMERA (TRUE IMAGE)

## COMPACT CAMERAS

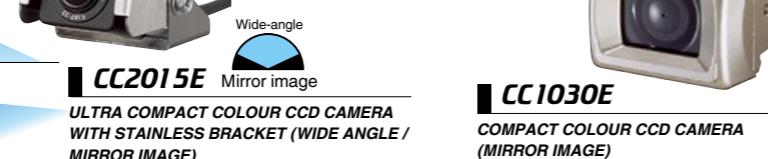
Minimum dimensions with maximum performance



**CC2011E**  
ULTRA COMPACT COLOUR CCD CAMERA (WIDE ANGLE / MIRROR IMAGE)



**CC2012E**  
ULTRA COMPACT COLOUR CCD CAMERA (WIDE ANGLE / TRUE IMAGE)



**CC2015E**  
ULTRA COMPACT COLOUR CCD CAMERA WITH STAINLESS BRACKET (WIDE ANGLE / MIRROR IMAGE)



**CC1030E**  
COMPACT COLOUR CCD CAMERA (MIRROR IMAGE)

## POWER BOX

### EA1246A

#### POWER BOX FOR CJ981E

- Three camera direct inputs • Three signal connections for indicator lights and reverse gear • Compatible wired remote controller for Iris/Zoom>Select function (RCB174) • AUX video input (NTSC / PAL) • 12V/24V compatible

### EA1232A

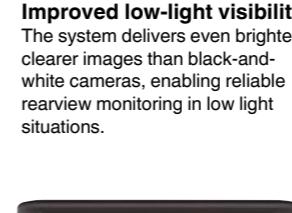
#### POWER BOX FOR CJ981E

- One camera direct input • Signal connection for indicator lights or reverse gear • Includes wired remote controller for Iris & Zoom settings • AUX video input (NTSC / PAL) • 12V/24V compatible



### Iris function (backlight compensation function)

Even during the daytime, in particularly strongly back-lit conditions some parts of an image may be lost in the shadow. In this situation, you can use the Iris function to correct the camera's exposure. The Iris function makes the dark sections lighter and therefore easier to see. (CJ981E)



1.4x digital zoom function

Switch to a magnified centre area view with just the touch of a button. The digital zoom delivers a detailed view when you need it for extra safety. (CC2000 series)



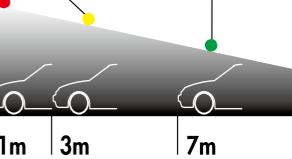
### Low-distortion lens

The distortion typical of wide-angle lenses has been corrected in this ultra-wide-angle lens to provide a wider, more natural view. (CC2000 series)

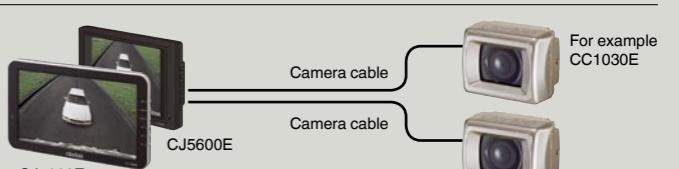
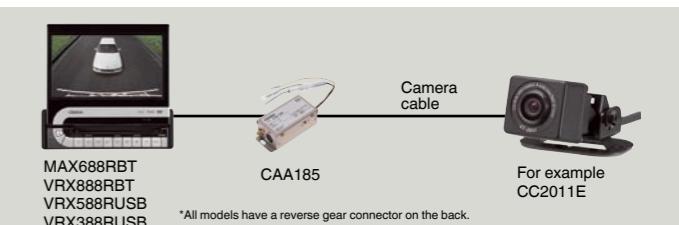


### On-screen distance markers

Displayed at 1, 3, 5 and 7 metres for reference as rear proximity verification (CJ981E), with 7 screen marker patterns ranging from 2 to approx. 3.5 metres in height.



## System examples



\*All models have a reverse gear connector on the back.

## ACCESSORIES

### CAA188

#### POWER BOX FOR CCD CAMERA

- 8-pin mini-DIN output for MAX983HD
- Reverse gear connection
- Manual on/off switch • 12V compatible

### CAA185

#### POWER BOX FOR CCD CAMERA

- NTSC video line-out VRX888RBT, MAX688RBT, VRX588RUSB and VRX388RUSB
- Reverse gear connection
- NTSC video line-out for all other LCD monitors with NTSC input • 12V compatible

### RCB174

#### WIRED REMOTE CONTROL FOR EA1246A

- NTSC video line-out VRX888RBT, MAX688RBT, VRX588RUSB and VRX388RUSB
- Reverse gear connection
- NTSC video line-out for all other LCD monitors with NTSC input • 12V compatible

### PQE033

#### FINISHING CAMERA COVER

- Finishing camera cover for CC2011E/CC2012E

## TRAILER ACCESSORIES

### TRAILER "BREAK POINT" TO CAMERA CABLE



## ROCK THE WATER WITH CLARION MARINE AUDIO

# MARINE '08 AUDIO

From the leader of marine audio products, Clarion's line-up gets even better for 2008.

Whether you're into hardcore water sports, cruising to your favourite hideaway, or hanging out at the dock with friends, Clarion knows that a great sounding audio system makes the day more enjoyable.

The 2008 Marine Audio products offer innovative and reliable watertight source unit chassis with high resistance to destructive UV and Salt/Fog exposure.



### CMD5

WATERTIGHT MARINE CD/MP3/WMA RECEIVER WITH CeNET CONTROL



- CD-R/RW ready • MP3 and WMA compatible
- 4-channel x 50 Watts • Built-in amplifier canceller • 6-channel audio pre-out
- Non-fader volume control • Switchable tuner for Europe / USA • 24 station presets (18FM / 6AM) • Auto store, preset scan, seek manual • CeNET control of: iPod interface (EA1276E), TV tuner, 6-disc CD changer
- AUX Bluetooth ready (BLT373) (audio streaming/hands-free) • Audio auxiliary input with level control • Flip-down control panel
- High visibility 2-line display • Rotary volume control • IPX5 certificated • Meets ASTM B117 (salt/fog exposure) • Meets ASTM D4329 (UV exposure) • Humiseal coated PCB • Sealed stainless steel chassis

### CMRC1-SB

WATERTIGHT ROUND-SHAPED MARINE REMOTE CONTROLLER WITH DISPLAY

#### Expanded waterproof remote control for a wider range of systems

Clarion is now introducing a new interface cable to connect the watertight marine remote controller with a normal car radio, AV station, etc. So if you have an existing audio system already installed on your craft, chances are that you can now easily add the convenience of operation from a distance.



#### Water resistance, taken to the next level

Clarion knows that water is a source unit's worst enemy. Our CMD5 AM/FM/CD/MP3/WMA receiver has been IPX5 tested and certified to offer the highest water intrusion protection. A rubber gasket behind the flip-down front panel and integrated water drainage channels work to keep water out. Remember, Clarion is the leader in marine audio products, and the CMD5 shows that no one does it better.



#### When it comes to marine source units, stainless steel is your friend

Clarion takes marine audio seriously. For 2008, we introduce a new stainless steel chassis to the CMD5. Should any water get in behind the radio, this new chassis, combined with a drip shield over the wire connections will ensure things stay dry. The main circuit boards feature a silicone coating to help resist the effects of humidity. These safeguards will give you years of troublefree performance.



#### Command your system from anywhere on your boat

Clarion has waterproof, wired remote controls. Our CMRC1 controls all main functions of your system. The easy to read LCD lets you see station information, as well as iPod song titles and artist information. Install one remote at the helm and one on the transom (up to three remotes can be connected) - control of your system is always just an arms-reach away.

**The link between you and your music is Clarion Marine Speakers.**

Clarion Marine Audio Speakers produce stunning sound in an open-air environment. They keep performing because they're built to resist Mother Nature – water, UV rays and Salt/Fog. Polypropylene speaker cones and titanium tweeters withstand the elements while delivering clean, clear sound. Speaker baskets and grills are based on a Centrex 814 polymer plastic that resists fading, cracking and discolouration from UV exposure. A special waterproof design uses a neoprene rubber surround and pole piece gasket to ensure resistance to water damage.



### CM1682A

16.5 CM (6 1/2") COAXIAL 2-WAY WATER RESISTANT SPEAKER

- Waterproof 165 mm polypropylene cone woofer • 19 mm PEI dome tweeter • Magnetically shielded enclosure • Non-oxidising (in salt water) and UV radiation resistant cone
- Special speaker cover made from ABS synthetics
- Frequency response: 30 ~ 20,000 Hz • Efficiency: 89 dB/W/m

### CM1680A

16.5 CM (6 1/2") DUAL CONE WATER RESISTANT SPEAKER

- Waterproof 165 mm dual polypropylene cone speaker
- Magnetically shielded enclosure • Non-oxidising (in salt water) and UV radiation resistant cone • Special speaker cover made from ABS synthetics • Frequency response: 30 ~ 18,000 Hz • Efficiency: 89 dB/W/m



### CMRC2-SB

WATERTIGHT ROUND-SHAPED MARINE REMOTE CONTROLLER WITHOUT DISPLAY



### M301RCE

WATERTIGHT OVAL-SHAPED MARINE REMOTE CONTROLLER WITH DISPLAY

#### CABLE



**M101RXC**  
EXTENSION CABLE FOR MARINE CONTROLLER



**M101RYC**  
MULTILINK Y-CABLE FOR MARINE CONTROLLER



**M101CCA**  
MARINE REMOTE CONTROLLER INTERFACE CABLE

- Connect any Clarion head unit (with mini jack input) to a waterproofed marine remote controller
- Display function of CMRC1 and M301RCE will be not supported

## Multimedia stations – Feature comparisons

	MAX983HD	MAX688RBT	VRX888RBT	VRX588RUSB	VRX388RUSB
<b>NEW MEDIA</b>					
DVD±R/DVD±RW/CD-R/CD-RW ready	DVD VIDEO DivX (CD/DVD)	● -	● ●	● ●	● ●
Compressive audio media via disc slot	MP3 (CD/DVD) WMA (CD/DVD)	● ●	● ●	● ●	● ●
USB Connector	AAC (CD/DVD)	-	● ●	● -	● -
	MP3	-	● ●	● ●	● ●
	WMA	-	● ●	● ●	● ●
	AAC	-	● ●	● ●	● ●
SD Slot	WMDRM10(MTP)	-	● ●	● ●	● ●
	MP3	● ●	- -	- -	- -
	WMA	● ●	- -	- -	- -
	AAC	-	- -	- -	- -
<b>NEW FEATURES</b>					
Wallpaper Customization	(Skin change)	(4 patterns)	(4 patterns)	-	-
Built-in Music Catcher	Ripping speed: maximum 8 times. Storage capacity: maximum 4,000 songs	-	-	-	-
Built-in Bluetooth(HFP & OPP/A2DP & AVRCP)	-	● ●	-	-	-
<b>TUNER</b>					
Built-in RDS-TMC tuner for traffic information	● -	-	-	-	-
Bands	FM3/L,M1	FM3/L,M2	FM3/L,M2	FM3/L1/M1	FM3/L1/M1
Number of presets	18/6	24/16	24/16	18/6/6	18/6
RDS-EON DSP tuner	● (with Radio Text)	● (with Radio Text)	● (with Radio Text)	● -	-
Variable bandwidth	● -	● -	● -	-	-
<b>AUDIO</b>					
Subwoofer level control	-	● ●	● ●	● ●	● ●
2-Zone entertainment: front and rear separate source control	● (only visual source)	● ●	● ●	● (only visual source) ● (only visual source)	● (only visual source) ● (only visual source)
D/A converter design	24-bit	24-bit	24-bit	24-bit	24-bit
Z-Enhancer Plus sound customisation	-	-	-	● -	● -
Digital Z-Enhancer sound customisation	● -	● -	● -	-	-
Parametric equaliser	3 bands	3 bands	3 bands	2 bands	2 bands
Built-in HPF	-	50 Hz / 80 Hz / 120 Hz / THROUGH	50 Hz / 80 Hz / 120 Hz / THROUGH	120 Hz / THROUGH	120 Hz / THROUGH
Built-in LPF	-	50 Hz / 80 Hz / 120 Hz / THROUGH	50 Hz / 80 Hz / 120 Hz / THROUGH	50 Hz / 80 Hz / 120 Hz / THROUGH	50 Hz / 80 Hz / 120 Hz / THROUGH
MAGNA BASS EX	● -	● -	● -	● -	● -
Built-in amplifier canceller	● -	● -	● -	● -	● -
Shockproof memory	-	-	-	● -	● -
High power	MOS-FET 4 x 53 W	MOS-FET 4 x 50 W	MOS-FET 4 x 50 W	MOS-FET 4 x 50 W	MOS-FET 4 x 50 W
Rated power output (DIN4532,+B=14.4V)	4 x 31 W (DIN4532,+B=14.4 V)	4 x 20 W (DIN4532,+B=14.4 V)	4 x 25 W (DIN4532,+B=14.4 V)	4 x 27 W (DIN4532,+B=14.4 V)	4 x 27 W (DIN4532,+B=14.4 V)
<b>APPEARANCE</b>					
Full-loading / Motorised sloping console	Motorised sloping console	Motorised sloping console	Full-Loading	Full-Loading	Motorised sloping console
Tilt	● -	● -	● -	● -	● -
Touch panel control	● -	● -	● -	● -	-
Display size	7" LCD	7" LCD	7" LCD	7" LCD	3.5" LCD
Character display	WQVGA	WQVGA	WQVGA	QVGA	QVGA
Adjustable display contrast/brightness	● -	● -	● -	● -	● -
Dimmer	● -	● -	● -	● -	● -
<b>CONNECT</b>					
Phone mute	-	-	-	● -	● -
Video line-in	1	1	1	1	1
Video line-out	1	1	1	1	1
Auxiliary audio input	2ch	2ch	2ch	2ch	2ch
Audio input sense	● (Low/Mid/Hi)	● (Low/Mid/Hi)	● (Low/Mid/Hi)	● (Low/Mid/Hi)	● (Low/Mid/Hi)
Audio pre-out voltage	-	2V	2V	2V	2V
Audio pre-out	-	F2ch + R2ch + SW2ch	F2ch + R2ch + SW2ch	F2ch + R2ch + SW2ch	F2ch + R2ch + SW2ch
Audio pre-out for 2-ZONE	2ch	2ch	2ch	2ch	2ch
CCD camera input	● (8-pin connector)	● (Video in)	● (Video in)	● (Video in)	● (Video in)
iPod direct connector	(CCA692)	-	-	(CCA691)	(CCA691)
<b>EXPANSION</b>					
iPod® direct control via USB	-	● -	● -	-	-
CeNET Bluetooth interface adapter BLT583 ready	● -	-	-	-	-
CeNET CD changer control	-	-	-	-	-
CeNET navigation control	-	● -	● -	-	-
AUX Bluetooth audio/mobile-phone transceiver BLT373 ready	-	-	-	● -	● -
<b>OTHERS</b>					
Remote controller included	(optional RCB187)	● ●	● ●	● ●	● ●
Remote control sensor	● ●	● ●	● ●	● ●	● ●
Built-in Hard Disk Drive	40 GB	-	-	-	-
CPU	400 MHz	-	-	-	-
OEM steering wheel remote wired interface capability	● -	● -	● -	● -	● -
Detachable control panel	-	-	-	● -	● -
CATS anti-theft system	● -	● -	-	-	-

## Main units – Feature comparisons

	DXZ788RUSB	DXZ588RUSB	DXZ388RUSB	DB288RUSB	DB188RMP	FB289/288RBT	WXZ468RMP	DUZ388RMP	DUB278RMP
<b>NEW MEDIA</b>									
CD-R/RW ready	CD-R/RW	● ●	● ●	● ●	● ●	-	● ●	● ●	● ●
Compressed audio media via (MP3 / WMA / AAC) disc slot	MP3	● ●	● ●	● ●	● ●	-	● ●	● ●	● ●
WMA (CD/DVD)	WMA	● ●	● ●	● ●	● ●	-	● ●	● ●	● ●
AAC (CD/DVD)	AAC	● ●	● ●	● ●	● ●	-	● ●	● ●	● ●
USB Connector / Slot	MP3	● ●	● ●	● ●	● ●	-	-	-	-
WMA	WMA	● ●	● ●	● ●	● ●	-	-	-	-
AAC	AAC	● ●	● ●	● ●	● ●	-	-	-	-
WMDRM10(MTP)	WMDRM10(MTP)	● ●	● ●	● ●	● ●	-	-	-	-
SD Slot	MP3	-	-	-	-	● -	-	-	-
<b>Built-in Bluetooth</b>									
Handsfree profile	-	-	-	-	-	● -	-	-	-
Audio-streaming and Remote control (A2DP & AVRCP)	-	-	-	-	-	● -	-	-	-
<b>TUNER</b>									
Bands	FM3/LM1	FM3/LM1	FM3/LM1	FM3/LM1	FM3	FM3/LM1	FM3/LM1	FM3/LM1	FM3/LM1
Number of presets	18/6	18/6	18/6	18/6	18	18/6	18/6	18/6	18/6
RDS-EON DSP tuner	● ●	● ●	● ●	● ●	● ●	-	● ●	● ●	● ●
Variable bandwidth	● ●	● ●	-	-	-	-	-	-	-
<b>AUDIO</b>									
Subwoofer level control	● ●	● ●	-	-	-	-	-	-	-
D/A converter design	24-BIT	24-BIT	1-bit	1-bit	1-bit	1-bit	1-bit	1-bit	1-bit
Sound Restorer	● ●	● ●	-	-	-	-	-	-	-
Z-Enhancer Plus sound customisation	-	-	● ●	● ●	● ●	-	-	-	-
Digital Z-Enhancer sound customisation	● ●	● ●	-	-	-	-	-	-	-
Z-Enhancer sound customisation	-	-	-	-	-	-	-	-	-
Digital time alignment control	● ●	-	-	-	-	-	(LPO)	-	-
X-over	● ●	-	-	-	-	-	-	-	-
Parametric equaliser	3 bands	2 bands	2 bands	2 bands	2 bands	-	(9-band G-EQ)	● ●	-
MAGNA BASS EX	● ●	● ●	● ●	● ●	● ●	-	-	● ●	● ●
Built-in HPF	50 Hz / 80 Hz / 120 Hz / THROUGH (available for pre-out and internal AMP)	50 Hz / 80 Hz / 120 Hz / THROUGH (available for pre-out and internal AMP)	120 Hz / THROUGH (only for speaker line out)	-	-	-	-	-	-
Built-in LPF	THROUGH / 16 Hz - 250 Hz 1/3 oct STEP	50 Hz / 80 Hz / 120 Hz / THROUGH	50 Hz / 80 Hz / 120 Hz / THROUGH	-	-	-	-	-	-
Built-in amplifier canceller	● ●	● ●	● ●	-	-	-	-	-	-
High power	MOS-FET 4x53 W	MOS-FET 4x53 W	4 x 50 W	4 x 50 W	4 x 50 W	4 x 50 W	4 x 50 W	4 x 50 W	MOS-FET 4x50 W
Rated power (DIN4532,+B=14.4V)	4x25 W (DIN4532,+B=14.4 V)	4x25 W (DIN4532,+B=14.4 V)	4x25 W (DIN4532,+B=14.4 V)</td						

## MP3/WMA/AAC features

DXZ788RUSB, DXZ588RUSB, DXZ388RUSB, DUZ388RMP				DB288RUSB		DB188RMP	FB289RBT, FB288RBT	MAX983HD			VRX888RBT, MAX688RBT			VRX588RUSB, VRX388RUSB													
FILE SYSTEM		CD		USB		CD		USB		CD		SD		CD/DVD		SD		CD/DVD		USB		CD/DVD		USB			
		WMA	MP3	AAC	WMA	MP3	AAC	WMA	MP3	WMA	MP3	WMA	MP3	WMA	MP3	WMA	MP3	AAC	WMA	MP3	AAC	WMA	MP3	WMA	MP3	AAC	
ISO9660	LEVEL1	●					●			●					●												
ISO9660	LEVEL2	●					●			●					●												
ISO9660	LEVEL3									●																	
EXTENSION	JOLIET	PLAY	●							●					●												
OTHERS	NEED	PLAY	●							●					●												
FILE	ROW	FILENAME	64 bytes					32 bytes		32 bytes					32 bytes					32 bytes							
FORMAT	.mp3/.MP3																										
MPEG	.wma	●					●			●					●												
	.WMA	●					●			●					●												
	.mp3/.Mp3																										
	.AAC/Ignore case																										
	m4a		●																								
SAMPLING FREQUENCY	MPEG1	●																									
	MPEG2	●																									
	MPEG2.5	●																									
BITRATE	MPEG1	32,44,1,48 (kHz)		32,44,1,48 (kHz)			32,44,1,48 (kHz)		32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	32,44,1,48 (kHz)	
	MPEG2	16, 22,05,24 (kHz)		16, 22,05,24 (kHz)			16,22,05, 24 (kHz)		16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)	16,22,05, 24 (kHz)		
	MPEG2.5	8,11,025, 12 (kHz)		8,11,025, 12 (kHz)			8,11,025, 12 (kHz)		8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)	8,11,025, 12 (kHz)			
	WMA	Fs=22,05,32, 44,1,48 (kHz) (WMA V2/V7/V8) Fs=44,1 (kHz) (WMA V8L)		Fs=22,05,32, 44,1,48 (kHz) (WMA V2/V7/V8) Fs=44,1 (kHz) (WMA V8L)			22,05,32, 44,1,48 (kHz)		22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)	22,05,32, 44,1,48 (kHz)				
	AAC	8,11,025, 12,16,22,05, 24,32,44,1 (kHz)		8,11,025, 12,16,22,05, 24,32,44,1 (kHz)																							
OTHERS	MPEG1	32 - 320 (kbytes)		32 - 320 (kbytes)			32 - 320 (kbytes)		32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)	32 - 320 (kbytes)			
	MPEG2	8 - 160 (kbytes)		8 - 160 (kbytes)			8 - 160 (kbytes)		8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)	8 - 160 (kbytes)			
	MPEG2.5	8 - 160 (kbytes)		8 - 160 (kbytes)			8 - 64 (kbytes)		8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)	8 - 64 (kbytes)			
	WMA	32,36,40, 44,48,64, 128,160, 192 (kbytes) (WMA V2/V7/V8) 64,80,96, 128,160, 192 (kbytes) (WMA V8L)		32,36,40, 44,48,64, 128,160, 192 (kbytes) (WMA V2/V7/V8) 64,80,96, 128,160, 192 (kbytes) (WMA V8L)			16,20, 32,20, 40,44, 48,64, 80,96, 128,160, 192 (kbytes)		16,20, 32,20, 40,44, 48,64, 80,96, 128,160, 192 (kbytes)	22,05 ~ 192 (kbytes)																	
	AAC	8,320 (kbytes) (stream generated with iTunes Ver. 4.7.1.30 (M4A))		8,320 (kbytes) (stream generated with iTunes Ver. 4.7.1.30 (M4A))																							
	DIRECTORY DEPTH	MAX 8		MAX 8			MAX 256		MAX 8		MAX 8		MAX 8		MAX 8		MAX 8		MAX 8		MAX 8		MAX 8		MAX 8		MAX 8
	FILE NAME LENGTH	64 bytes		64 bytes			32 bytes		64 bytes	30 chars	64 bytes	60 bytes	30 bytes	64 bytes	64 bytes	64 bytes	23 bytes	32 bytes									
	TOTAL FILE NUMBER	512,510		130,560			999		65,535	999	255	512	999	130,560</													

# FEATURE ICONS

## Multimedia/Main units



### 2-Zone entertainment

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



### 24-bit D/A converter

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



### 5.1-channel Dolby Digital / dts surround

With the arrival of DVD, 5.1-channel surround sound, which is already a must for home theatre systems, is rapidly becoming the entertainment format of choice in motor vehicles. Dolby Digital and dts provide three channels of front sound (left, right, centre) together with two rear audio channels (left, right) and a dedicated low-frequency channel for a subwoofer. This combination, as satisfied home theatre enthusiasts well know, is able to reproduce the dynamic sound field of a cinema in a relatively small space. So take the show on the road; let Clarion bring full 5.1-channel performance into your car.



### 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.



### Amplifier canceller

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.



### 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.



### AUX input

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



### Bluetooth

Bluetooth compatibility provides the ability to wirelessly connect a variety of peripheral equipment. It allows for hands-free mobile phone communication and linking of an iPod with 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, TV tuner, 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 S/N in the high frequency range, which is especially susceptible to noise. This results in smooth and rich expressive capabilities, and sound reproduction infinitely close to the original source.



### 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.



### 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 serene 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, minivan, 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.



### USB Memory Slot

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



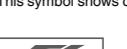
### Variable colour display

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



### Video CD

This symbol shows compatibility with Video CD.



### 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.



### 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.



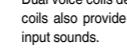
### Counter drive

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



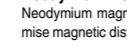
### Dual voice coil

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



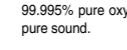
### Neodymium magnet

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.



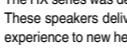
### Glass Fibre Cone

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



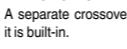
### HX series

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.



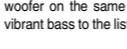
### In-line network

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.



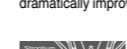
### Mica polypropylene mixed injection cone

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



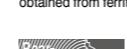
### PEI balanced drive

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.



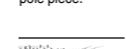
### Powerful strontium magnet

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.

